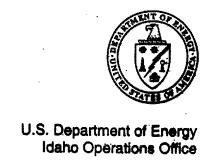
DOE/ID-10800 Revision 5 January 2005



Waste Management Plan for the Staging and Storage Annex (CPP-1789)



DOE/ID-10800 Revision 5 Project No. 23488

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Prepared for the U.S. Department of Energy Idaho Operations Office

ABSTRACT

The Idaho National Engineering and Environmental Laboratory (INEEL) is a U.S. Department of Energy facility with various missions including environmental cleanup. One of the INEEL facilities is the Idaho Nuclear Technology and Engineering Center (INTEC), which, under the Federal Facility Agreement and Consent Order, is referred to as Waste Area Group (WAG) 3. The Staging and Storage Annex (SSA), CPP-1789, is a staging and storage area within INTEC for Comprehensive Environmental Response, Compensation and Liability Act (CERCLA)-generated wastes. CERCLA waste includes investigation-derived waste, along with remedial and removal waste, from within the WAG 3 area of contamination, as well as waste from outside the WAG 3 area of contamination and from other WAGs at the INEEL. The container inventory of the SSA is monitored or managed using the Integrated Waste Tracking System. This system calculates the curie content for the hazard classification of the SSA and will not exceed 90% of the Category 3 threshold values. The purpose of this document is to discuss the waste management practices associated with the SSA.

This plan was written exclusively for the management of temporarily accumulated waste at the SSA. The SSA is being managed in accordance with this Waste Management Plan, SSA operating procedure (TPR-6834), and JSA-508. When the Staging, Storage, Sizing, and Treatment Facility (SSSTF) becomes operational, the SSA will then become part of the staging and storage areas for the SSSTF. However, the SSA will continue to be managed in accordance with this document, TPR-6834, and JSA-508. As part of the ICDF Complex, the SSA will continue to be managed by the WAG 3 and INTEC operations supervisors.

As more information becomes available regarding the waste being received by the SSA, the process defined in the Federal Facility Agreement and Consent Order will be used if this document requires modification.

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ACRONYMS

ALARA as low as reasonably achievable

AOC area of contamination

ARAR applicable or relevant and appropriate requirement

CAMU Corrective Action Management Unit

CERCLA Comprehensive Environmental Response, Compensation and Liability Act

CFR Code of Federal Regulations

DOE Department of Energy

DOE-ID Department of Energy Idaho Operations Office

DOT Department of Transportation

DQO data quality objective

EPA Environmental Protection Agency

HASP Health and Safety Plan

ICDF INEEL CERCLA Disposal Facility

IDW investigation-derived waste

INEEL Idaho National Engineering and Environmental Laboratory

INTEC Idaho Nuclear Technology and Engineering Center

IWTS Integrated Waste Tracking System

JSA job safety analysis

LDR land disposal restriction

OU operable unit

OS operations supervisor

PCB polychlorinated biphenyl

PPE personal protective equipment

RCRA Resource Conservation and Recovery Act

ROD Record of Decision

RQ reportable quantity

RWP radiological work permit

SNF spent nuclear fuel

SSA Staging and Storage Annex

SSSTF Staging, Storage, Sizing, and Treatment Facility

TAN Test Area North

TCLP toxicity characteristic leaching procedure

TRA Test Reactor Area

TRU transuranic

TSCA Toxic Substances Control Act

VOC volatile organic compound

WAC Waste Acceptance Criteria

WAG waste area group

WMP waste management plan

NOMENCLATURE

The following definitions are presented as an aid to the reader for understanding of technical and scientific terms used within this document.

- **Analytical residue and sample preservative residue:** Field preparation and laboratory analyses produce sample preservatives and analytical residue. The characteristics of these residues vary depending on the performed analyses, but may include aqueous and organic solutions.
- **CERCLA-derived remediation and removal wastes:** These are wastes from Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) activities that may include, but are not limited to, soil, water, contaminated personal protective equipment (PPE), filters, and other support equipment that cannot be decontaminated.
- **Construction wastes:** Wastes generated during the on-Site construction of CERCLA-related facilities. These wastes are anticipated to be primarily nonhazardous solid wastes which could be sent to the Idaho National Engineering and Environmental Laboratory (INEEL) solid/industrial waste landfill complex.
- **Contaminated equipment:** Equipment that has been contaminated during the remediation process and that cannot be decontaminated. Contaminated equipment becomes a waste stream if it cannot be properly decontaminated or reused for another drilling program.
- **Debris:** Solid material larger than a 60-mm particle that is a manufactured object, plant or animal matter, or natural geologic material and is intended for disposal. However, the following materials are not considered to be debris:
 - Any material for which a specific treatment standard is provided in Subpart D of 40 Code of Federal Regulations (CFR) 268, such as lead acid batteries, cadmium batteries, and radioactive lead solids
 - Process residuals, such as smelter slag and residues from the treatment of waste, wastewater, sludges, or air emission residues
 - Intact containers of hazardous waste that retain at least 75% of their original volume.

A mixture of debris and other material that has not been treated to the standards provided by 40 CFR 268.45 is subject to regulation as debris, if the mixture is composed primarily of debris, by volume, based on visual inspection.

- **Drill cuttings:** The downhole return produced by boring. Perched and development Snake River Plain Aquifer water well installation is expected to generate a substantial volume of drill cuttings. Drill cuttings are generated from well installation activities.
- **Facility:** An area within the boundaries of a Department of Energy (DOE)-controlled site that is access-controlled to prevent public access, for example, Test Reactor Area (TRA), Idaho Nuclear Technology and Engineering Center (INTEC), and Test Area North (TAN).

- **Free liquids:** Liquids that can readily separate from the solid portion of a waste under ambient temperature and pressure (DOE Order 435.1), as demonstrated by "EPA Paint Filter Liquids Test Method 9095" (EPA 1996).
- **Hazardous debris:** Debris that contains a hazardous waste listed in Subpart D of 40 CFR 261 or that exhibits a characteristic of hazardous waste identified in Subpart C of 40 CFR 261.
- **Hazardous substances:** For Department of Transportation (DOT), an U.S. Environmental Protection Agency (EPA) hazardous substance equal to or exceeding its reportable quantity (RQ). Below its RQ, DOT does not consider it to be a DOT hazardous substance.
- **Hazardous waste:** Waste designated as hazardous by the EPA regulations (40 CFR 261.3) and regulated under Resource Conservation and Recovery Act (RCRA).
- **High-level waste:** Highly radioactive waste material. High-level waste results from the reprocessing of spent nuclear fuel, including the liquid waste produced directly during reprocessing. Per DOE Order 435.1, the term refers to any solid material derived from such liquid waste that contains fission products in sufficient concentrations, and to other highly radioactive material that is determined, consistent with existing law, to require permanent isolation. (Adapted from: Nuclear Waste Policy Act of 1982, as amended.)
- **Hydraulic spills:** Unintentional releases of hydraulic fluid. Hydraulic spills can occur when, during drilling operations, hydraulic fluid leaks from equipment seals or through ruptured hoses.
- **Investigation-derived waste (IDW):** Consists of materials that are generated from CERCLA investigations, such as drill cuttings, purge and development water, soils, and wastes (debris, sludge, etc.).
- Infectious waste: Waste containing living organisms that could endanger human health or the health of domestic animals or wildlife by extending the range of biological pests, viruses, pathogenic microorganisms, or other agents capable of infesting, infecting, or extensively and permanently altering the normal populations of organisms. Although infectious waste has not yet been identified by a generator at this time, the potential exists for it to be generated in the future.
- **Low-level waste:** Radioactive waste that cannot be defined as high-level waste, spent nuclear fuel, transuranic waste, byproduct material [as defined in Section 11e.(2) of the Atomic Energy Act of 1954, as amended], or naturally occurring radioactive material (DOE Order 435.1).
- Miscellaneous waste: Nonrecyclable unwanted material, such as trash, labels, rags, and other debris.
- **Mixed waste:** Waste containing both radioactive and dangerous or hazardous components, as defined by the Atomic Energy Act of 1954 (as amended).
- **Orphan waste:** Waste that has transuranic (TRU) constituents greater than 10 nCi/g, but less than 100 nCi/g. This waste designation is specific to the INEEL site only and has no regulatory requirement.
- **PCB bulk product waste:** Waste derived from manufactured products containing polychlorinated biphenyls (PCBs) in a non-liquid state at any concentration where that concentration at the time of designation for disposal was ≥ 50 ppm PCBs, as specified in 40 CFR 761.3.

- **PCB remediation waste:** PCB remediation waste means soil, rags, and other debris generated as a result of a PCB spill cleanup, as specified in 40 CFR 761.3.
- **Personal protective equipment:** May include coveralls, shoe covers, boots, gloves, glove liners, hoods, and duct tape. Coveralls and hoods are generally made of paper or Tyvek. Gloves are generally latex or nitrile, and glove liners are made of disposable cloth material. Shoe covers and boots are generally rubber.
- **Purge and development water:** Purge and development water is the water generated from well development that is removed from a well before samples are collected.
- **Radioactive waste:** Solid, liquid, or gaseous material that contains radionuclides regulated under the Atomic Energy Act of 1954, as amended, which is of negligible economic value considering costs of recovery.
- **Sample containers:** Containers composed of steel, aluminum, Teflon, brass, or plastic used to contain samples of water, soil, or other media. Once used, these containers become a waste stream if they cannot be decontaminated for reuse.
- Secondary waste: A generic category of wastes that is generated from support activities (including operations and maintenance activities) related to retrieving, processing, and packaging the investigation-derived materials. Examples of secondary wastes include waste associated with routine decontamination activities (excluding facility closure), PPE, administrative area and support services wastes, used equipment and filters, and other similar wastes generated during operation and maintenance activities. This type of waste may also be associated with remedial wastes and construction wastes.
- **Solidification:** A technique that limits the solubility and mobility of hazardous waste constituents through physical means. This process changes the physical state from liquid or semi-solid to solid.
- **Soil waste:** This includes soils that may be excavated as part of a project. Soil may be contaminated from the result of spill and pipeline leaks or radioactive liquids from plant liquid transfer operations.
- **Spent nuclear fuel:** Fuel that has been withdrawn from a nuclear reactor following irradiation, which has not yet been reprocessed to remove its constituent elements.
- **Stabilization:** A technique that limits the solubility and mobility of hazardous waste constituents by causing the constituents to bond or chemically react with the stabilizing material.
- **Structural stability:** A structurally stable waste form will generally maintain its physical dimensions and its form under the expected disposal conditions, such as weight of overburden and compaction equipment, the presence of moisture and microbial activity, and internal factors such as radiation effects and chemical changes. Structural stability can be provided by the waste form itself, by processing the waste to a stable form, or by placing the waste in a disposal container or structure that provides stability after disposal.
- **Toxic Substances Control Act (TSCA) waste:** Waste that is managed strictly under TSCA regulations. Presently, only PCBs and asbestos are regulated under TSCA as waste.

TRU waste: Per DOE Order 435.1, TRU waste is radioactive waste containing more than 100 nanocuries (3700 becquerels) of alpha-emitting transuranic isotopes per gram of waste, with half-lives greater than 20 years, except for (1) high-level radioactive waste; (2) waste that the Secretary of Energy has determined, with the concurrence of the administrator of the EPA, does not need the degree of isolation required by the 40 CFR 191 disposal regulations; or (3) waste that the Nuclear Regulatory Commission has approved for disposal on a case-by-case basis in accordance with 10 CFR 61. (Source: WIPP Land Withdrawal Act of 1992, as amended.)

Unused and unaltered sample material: Unused and unaltered sample material may include excess soil cores from the interbeds, underlying basalt, and groundwater.

Waste Management Plan for the Staging and Storage Annex (CPP-1789)

1. PURPOSE AND OBJECTIVE

This Waste Management Plan (WMP) describes the management of Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) wastes, including investigation-derived waste (IDW) and remedial and removal waste, to be moved to the Staging and Storage Annex (SSA), CPP-1789, from various Idaho National Engineering and Environmental Laboratory (INEEL) sites. The purpose of the SSA is to solely manage CERCLA wastes at the temporary storage area [40 CFR 264.553] or at the staging area (40 CFR 254.554) in accordance with the applicable or relevant and appropriate requirements (ARARs). The SSA is located at the Idaho Nuclear Technology and Engineering Center (INTEC) and is the temporary storage and staging site for CERCLA wastes generated at the INEEL. The INEEL CERCLA Disposal Facility (ICDF) Complex will include the ICDF landfill, the Staging, Storage, Sizing, and Treatment Facility (SSSTF), the evaporation pond, and the SSA, which will be incorporated into the SSSTF. Figure 1-1 presents the relationship of the SSA to the other facilities within and outside the ICDF Complex.

This WMP identifies the types of waste accepted at the SSA, the Waste Acceptance Criteria, the tracking of waste using the Integrated Waste Tracking System (IWTS), the calculation of the curie content for the hazard classification, and, where possible, the volume of wastes anticipated to be generated during CERCLA activities and moved to the SSA. This plan identifies waste streams, describes waste minimization actions, and provides for proper waste management while the waste is located at the SSA. Figure 1-2, which provides the logic flow diagram for the SSA from the generation of waste at a CERCLA site to temporary staging or storage at the SSA, is the process flow diagram which also provides the operating method number.

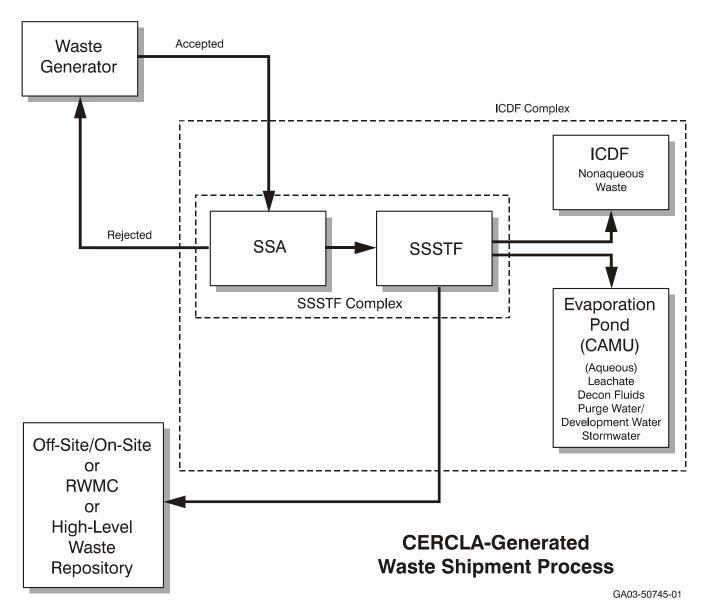


Figure 1-1. Shipment process for the SSA.

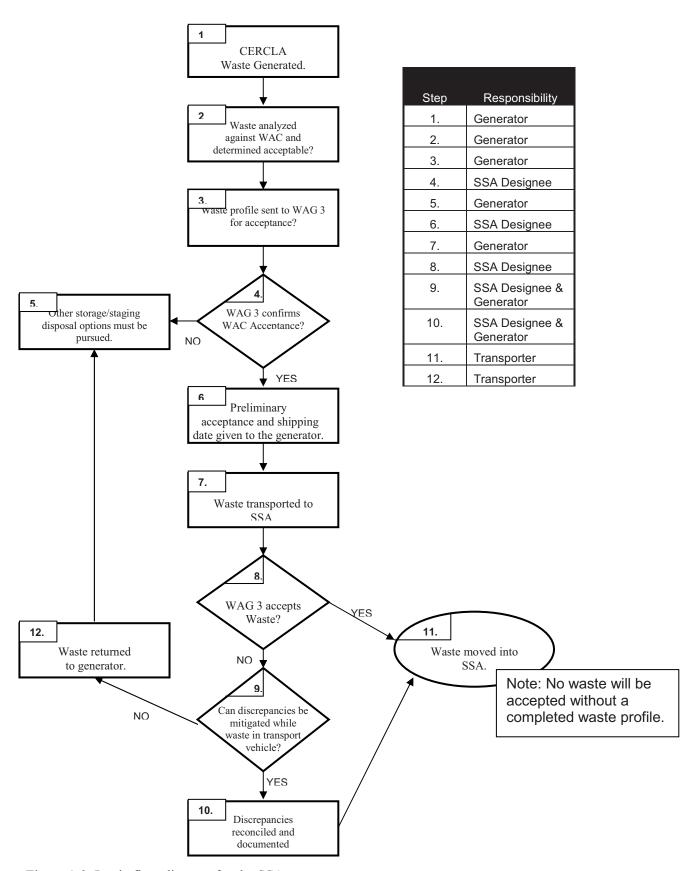


Figure 1-2. Logic flow diagram for the SSA.

2. SITE BACKGROUND AND FACILITY DESCRIPTION

The INEEL is a Department of Energy (DOE) government facility located 51.5 km (32 mi) west of Idaho Falls, Idaho, that occupies 2,305 km³ (890 mi²) of the northeastern portion of the Eastern Snake River Plain. INTEC is located in the south-central portion of the INEEL, as shown in Figure 2-1.

INTEC, designated as Operable Unit (OU) 3-13, began operation in 1952, with the primary missions of reprocessing uranium for defense purposes and researching and storing spent nuclear fuel (SNF). Irradiated defense nuclear fuels were reprocessed to recover unused uranium, but, in 1992, the reprocessing operations were phased out. Currently, the INTEC receives and temporarily stores SNF, radioactive wastes for future disposition, and CERCLA-generated wastes from other INEEL facilities.

The SSA is a temporary area constructed to stage and store INEEL CERCLA-generated wastes from within and outside the Waste Area Group (WAG) 3 area of contamination (AOC). If more space is necessary to stage and store CERCLA-generated waste, the current area of the SSA will be expanded by incorporating the gravel area south of CPP-1789. As shown in Figure 2-2, the SSA consists of a sloped asphalt concrete storage pad and an adjacent gravel area located on the southwest corner of the INTEC. Waste staged at the SSA will be located in the staging area (Figure 2-2) in remediation waste staging piles. This staged waste may be temporarily staged (less than 2 years) in containers or in a bulk storage pile. Soil piles may be used for staging of solid, nonflowing remediation wastes. Wastes other than solid, nonflowing remediation waste may not be placed in the waste staging section of the SSA. The asphalt pad, per specifications, is constructed to withstand the weight of one forklift with a load. Liquid storage containers will be stored with adequate aisle space and secondary containment. A minimum aisle spacing of 30 in. will be maintained to allow for personnel and equipment access to respond to emergencies and/or conduct inspections. The SSA as-built drawings, design drawings, and specifications are found in Appendix A. Provisions will be made to ensure that incompatible materials are not stored together. All aqueous hazardous waste stored in containers will have adequate secondary containment. Figure 2-3 presents a photograph of the sign that is erected at the SSA.

Warning signage will be provided for the unpaved area of the SSA with the two-wire fence. This signage will be placed along each exterior fence boundary, at a minimum of every 50 ft. This signage shall have a legend of "Danger – CERCLA Site –Unauthorized Personnel Keep Out" and will be legible at a distance of at least 25 ft.

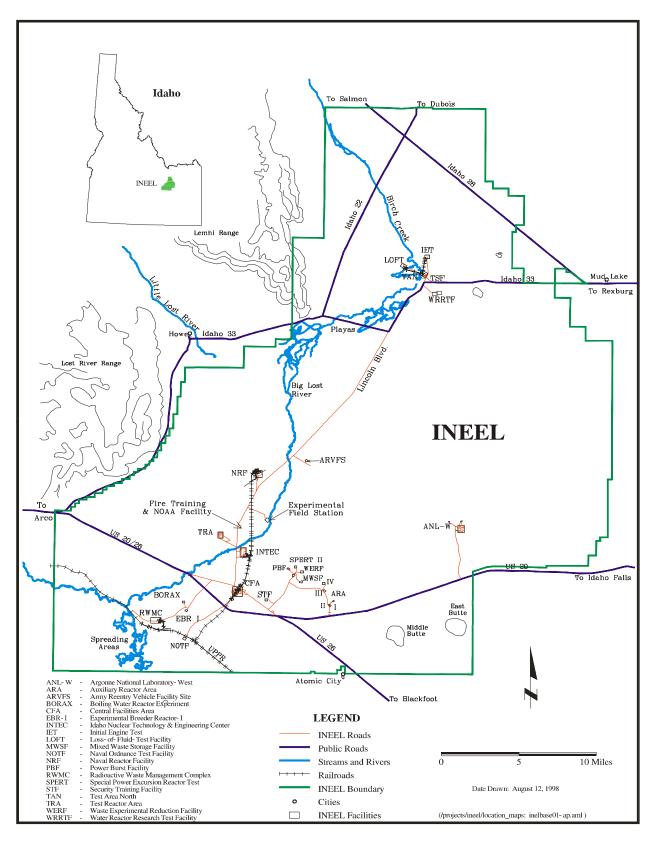


Figure 2-1. Location of INTEC at the INEEL.

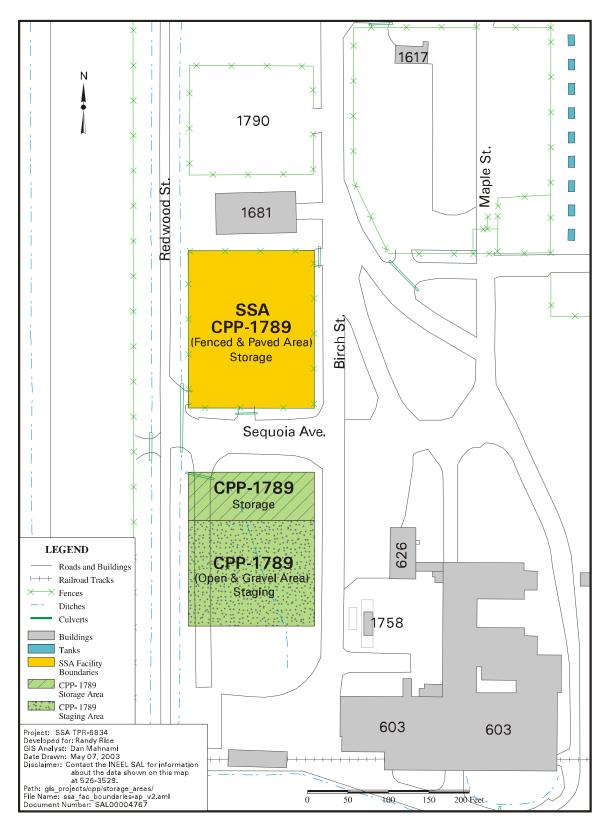


Figure 2-2. Location of the SSA at INTEC.



Figure 2-3. The SSA signage (typical).

3. WASTE GENERATION

The following sections discuss the types and volumes of waste anticipated to be stored at the SSA until the ICDF Complex is in operation.

3.1 Remediation Sites Storing or Staging Waste at the SSA

The facility is intended for the storage or staging of only CERCLA waste generated from both inside and outside the WAG 3 AOC, pending the acceptance of CERCLA waste to the ICDF Complex or other appropriate facility.

3.2 Waste Identification

The CERCLA wastes anticipated to be generated from both inside and outside the WAG 3 AOC are summarized in Table 3-1. This table provides a description of the various waste streams and indicates whether the waste is accepted for SSA storage or staging.

Each of the waste streams listed in Table 3-1 is further defined in the Nomenclature section found in the beginning of this document.

The types of regulatory restrictions that apply to the waste types are discussed in Section 4. Other waste streams may be accepted on a case-by-case basis.

Table 3-1. CERCLA waste expected to be stored or staged at the SSA.

| Waste Types ^a | Generated Within the WAG 3 AOC | Generated Outside the WAG 3 AOC |
|---|--------------------------------|---------------------------------|
| Soil | X | X |
| Debris | X | X |
| PPE | X | X |
| Unused and unaltered sample material ^a | X | X |
| Analytical residue and sample preservative residue ^a | X | X |
| Sample containers | X | X |
| Hydraulic spills | X | X |
| Purge/development water | X | b |
| Drill cuttings | X | _ |
| Contaminated equipment | X | X |
| Miscellaneous waste (trash, labels, rags, etc.) | X | X |
| CERCLA-derived remediation | X | X |
| IDW | X | X |
| Secondary waste ^a | X | X |
| Construction waste | X | X |
| IDW-soil (OU 3-13 ROD) | X | _ |
| Other liquids from Groups 4 and 5 ^a | X | _ |
| Other solids from Groups 4 and 5 ^a | X | _ |
| a. Wastes other than solid, nonflowing remediation wastes may not be staged at the SSA. | | |
| b. — = Not expected to be generated. | | |

4. WASTE ACCEPTANCE CRITERIA FOR THE SSA

The SSA will receive only CERCLA-generated waste, and a generator must understand the basic Waste Acceptance Criteria (WAC) to ensure proper management of the waste. The following sections provide information to help generators determine whether the wastes are acceptable for storage or staging at the SSA, before the generator completes the waste profile.

All wastes received at the SSA must be properly packaged and properly characterized by either laboratory analysis or process knowledge by the generator prior to acceptance. Waste that does not meet the SSA WAC may be accepted on a case-by-case basis, requiring proper authorization and approval.

The following sections address the primary elements of the SSA acceptance requirements, which were developed to ensure that waste received at the facility can be safely managed. The sections are as follows:

- Criteria Basis
- General Requirements
- Waste Content or Concentration Accepted at the SSA
- Waste Form and Container Requirements
- Exceptions to WAC Requirements (Case-by-Case Acceptance)
- Prohibitions
- Nonconforming Waste.

4.1 Criteria Basis

The basis for acceptance criteria includes protection of human health and the environment, compliance with the requirements of the ICDF, control of waste form, and compliance with environmental regulations as authorized by the OU 3-13 Record of Decision (Department of Energy Idaho Operations Office [DOE-ID] 1999). Each of these bases is described below.

4.1.1 Protection of Human Health and the Environment

The use of institutional controls and operational procedures will ensure that the SSA is protective of human health and the environment. Waste handling at the SSA will be consistent with maintaining worker exposure as low as reasonably achievable (ALARA), as per DOE Order 5400.5. Worker protection will be provided by compliance with the requirements of the INEEL health and safety requirements. Personnel monitoring and a radiological work permit (RWP) are required of workers entering any radiological area. Further monitoring is not required.

4.1.2 Compliance with the ICDF WAC

This WMP focuses on the requirements associated with the SSA, but the WAC requirements for the SSA must also remain consistent with the WAC requirements of the other ICDF Complex facilities to ensure protection of human health and the environment and to reduce costs associated with potential duplication of analysis.

4.1.3 Waste-Form Control

The physical form of the waste shall be controlled to minimize void space, to eliminate any free liquids and to facilitate loading, transportation, and unloading of waste. It is recommended that generators reduce void spaces in containers as much as possible. The SSA WAC prescribes additional packaging information on the waste form. In order to meet the SSA requirements, generators must meet the packaging requirements in Section 6.2.4 of this report. Waste to be managed in the staging area of the SSA must be solid, nonflowing remediation waste.

4.1.4 Compliance with Environmental Regulations

Waste staged or stored at the SSA must meet the ARARs identified in the OU 3-13 Record of Decision (DOE-ID 1999). To ensure compliance with the appropriate environmental regulations, the WAG 3 operations supervisor (OS) or designee must accept the generator's waste profile before the waste is shipped.

4.2 General Requirements

4.2.1 Characterization

The formal characterization/designation process for radioactive and/or Resource Conservation and Recovery Act (RCRA)-regulated wastes will be implemented. Waste streams will be identified and designated, and the land disposal restriction (LDR) status determined during the planning stages of the project and designated prior to shipment. (LDRs are described in Section 4.3.2.5.) Prior to unanalyzed waste being shipped to the SSA, a waste profile will be completed utilizing process knowledge. If waste from within the WAG 3 AOC, without analytical information, appears to meet the WAC, it may be accepted for staging or storage. Further analysis while such waste is at the SSA may be required. With the exception of waste designated as "pending analysis," all waste entering the SSA will undergo, at a minimum, a hazardous waste determination for total metals (except as noted in Table 4-1) and a radiological analysis that includes both activity and speciation. If the total metals are greater than 20 × the LDR, a verification toxicity characteristic leaching procedure (TCLP) may be required.

4.2.2 Use of Process Knowledge for Waste Designation

When a waste designation is based solely on process knowledge, the generator must ensure that the chemical, physical, and radiological properties of the waste are adequately determined. The designation must be accomplished with sufficient accuracy to ensure that subsequent treatment, storage, or disposal of the waste protects human health and the environment.

Using process knowledge, the generator of a solid waste may declare the waste hazardous in lieu of testing. The organization responsible for the management of a declared hazardous waste may use acceptable knowledge, such as analytical results, to reverse the declaration as long as impermissible dilution has not occurred. When a waste is declared hazardous based on process knowledge, designation records shall so indicate to document the quality of knowledge used to complete the waste designation.

4.3 Waste Content or Concentration Accepted at the SSA

Waste generated from CERCLA activities conducted under the Federal Facility Agreement and Consent Order (DOE-ID 1991), such as IDW and remedial wastes, will be accepted at the SSA. In addition, CERCLA waste generated from removal actions is also CERCLA waste and is a candidate for acceptance into the SSA.

Table 4-1 below summarizes the types of waste that are accepted at the SSA. As shown in Figure 1-2, the generator must complete a waste profile for generated waste listed in Table 4-1 and obtain WAG 3 OS or designee approval before shipping the waste to the SSA.

Each of the wastes listed on Table 4-1 is further described in a subsequent section. Table 4-2 summarizes the types of regulated wastes that may be candidates for SSA storage or staging.

Table 4-1. Summary of SSA Waste Acceptance Criteria.

| Waste Type Accepted at the SSA Concentration/Content Accepted Waste must be certified as containing no hazardous or radioactive component. Additionally, generator must justify to WAG 3 OS or designee as to why waste is not accepted at the INEEL landfill. Hazardous waste Hazardous waste If metals total concentrations exceed the LDRs by the application of the 20 × rule, then TCLP analysis may be necessary for storage or staging at the SSA area. This determination will be made on a case-by-case basis. Additionally, organic wastes will not be accepted if they are at 100 × the Phase IV LDRs. Both a radiation count and speciation are required. Radionuclide waste prohibited from the SSA is identified in Table 4-4. Mixed waste Must meet both the hazardous and radioactive WAC. Liquid waste may be accepted on a case-by-case basis for storage, pending operation of the SSSTF and evaporation pond. All WAG 3 liquid waste will be accepted. These wastes will be accepted into the SSA. These wastes will be accepted for storage or staging until final disposal is determined. TRU waste (from within WAG 3 AOC) TRU waste (from within WAG 3 AOC) TRU waste will only be accepted from WAG 3 AOC. TRU waste will be stored at the SSA until accepted for final disposition. Without regard to source or form, waste that is contaminated with alpha-emitting, TRU radionuclides with half-lives greater than 20 years and concentrations greater than 100 nCi/g at the time of assay are considered TRU waste. Heads of DOE Operations Offices (e.g., DOE-ID) may determine if other alpha-contaminated waste, pending of the plane-contaminated mate, as perific site, must be managed as TRU waste. (DOE Order 435.1) | | |
|---|--|--|
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| peculiar to a specific site, must be managed as 1100 waste (DOL Older 455.1). | * | stored at the SSA until accepted for final disposition. Without regard to source or form, waste that is contaminated with alpha-emitting, TRU radionuclides with half-lives greater than 20 years and concentrations greater than 100 nCi/g at the time of assay are considered TRU waste. Heads of DOE Operations |
| Drill cuttings Drill cuttings will be accepted at the SSA. | Drill cuttings | Drill cuttings will be accepted at the SSA. |

Table 4-2. Regulated waste accepted at the SSA.

| Waste Type | Liquid | Solid | Case-by-Case |
|--|--------|-------|--------------|
| Ignitable | a | _ | X |
| Corrosive | _ | _ | X |
| Reactive | _ | _ | X |
| TCLP/toxic metals | X | X | _ |
| Volatile organics | X | X | _ |
| Semivolatile organics | X | X | _ |
| Chlorinated solvents | _ | _ | X |
| P/U listed waste | _ | _ | X |
| Lab packs | X | X | X |
| Compressed gas | _ | _ | X |
| Pending analysis ^b | X | X | _ |
| Asbestos | _ | _ | X |
| Nonaqueous PCB remediation waste or bulk product waste | _ | X | _ |
| Radioactive | X | X | _ |
| Transuranic (WAG 3 AOC only) | _ | _ | X |
| Mixed waste | X | X | _ |
| a - Not applicable | | | |

a. — = Not applicable.

4.3.1 Nonhazardous/Nonradioactive Solid Waste

Nonhazardous/nonradioactive solid waste is defined as articles, materials, and substances that are no longer of practical use, have no commercial value, and do not meet the definition of hazardous waste or radioactive waste. Primary examples of nonhazardous/nonradioactive waste are office waste and inert demolition waste [40 CFR 261.2(a)(1) and (2), and IDAPA 58.01.05.005]. Preferably, solid waste will be transferred to the INEEL Landfill Complex rather than be accepted at the SSA. However, in the event that the INEEL landfill cannot accept the solid waste, the SSA will then consider accepting it.

4.3.2 Hazardous Waste

Hazardous waste is defined in 40 CFR 261 Subparts C and D of the RCRA. The SSA can accept D-code characteristic waste, F-listed wastes, and most P-code and U-code wastes. Waste characterization will be based on total concentrations. If total concentrations exceed the LDR by the application of the $20 \times \text{rule}$, then TCLP analysis may be necessary to determine if the waste is RCRA characteristic. This determination will be made at the discretion of the WAG 3 OS or designee.

b. This pertains to waste within WAG 3 AOC only. Prior to unanalyzed waste being shipped to the SSA, a waste profile will be completed utilizing process knowledge. If waste without analytical information appears to meet the WAC, it may be accepted for staging or storage if the waste is from within the WAG 3 AOC, but further analysis while such waste is at the SSA may be required.

Table 4-2 outlines the specific wastes that may be candidates for SSA storage or staging. The types of hazardous wastes accepted at the SSA are further defined in the following subsections:

- Commercial chemical product wastes
- Nonspecific source waste
- Characteristic waste
- Listed waste
- Other hazardous waste.
- **4.3.2.1 Commercial Chemical Product Wastes.** Commercial chemical products are also called the P- and U-listed waste. These lists consist of specific commercial chemical products or manufacturing chemical intermediates and include chemicals such as chloroform and creosote, acids such as sulfuric acid and hydrochloric acid, and pesticides such as DDT.
- **4.3.2.2 Nonspecific Source Waste.** Nonspecific source waste is generic waste, commonly produced by manufacturing and industrial processes. The waste is called F-listed because its hazardous waste codes begin with "F". Examples from this list include spent halogenated solvents used for degreasing, wastewater treatment sludge from electroplating processes, and dioxin waste.
- **4.3.2.3 Characteristic Waste.** Characteristic waste is designated by a waste code and exhibits one or more of the following characteristics:
- Ignitability is the first of the four hazardous waste characteristics. The waste code for ignitability is D001 (40 CFR 261.21).
- Corrosivity is the second hazardous waste characteristic. The waste code for corrosivity is D002 (40 CFR 261.22).
- Reactivity is the third hazardous waste characteristic. The waste code for reactivity is D003 (40 CFR 261.23).
- Toxicity is the fourth hazardous waste characteristic. The toxicity waste codes are D004 through D043 and consist of heavy metals and organic wastes. The determination of the waste codes is based on the concentration of contaminants that may leach from the waste. Those concentrations are determined either through use of the TCLP, which is found in Appendix II of 40 CFR 261, or through process knowledge. The waste codes and their corresponding threshold limits are listed in 40 CFR 261.24.
- Waste that has been characterized as ignitable, corrosive, or reactive will be reviewed on a case-by-case basis by the WAG 3 OS or designee for acceptance into the SSA.

During environmental restoration operations, certain activities may result in the use or handling of lead, which can be designated as either waste or a recyclable material. The generator should exercise the option to recycle prior to shipping lead for disposal. When lead is identified as waste, it must be handled in compliance with applicable regulatory requirements.

4.3.2.4 Listed Waste. The listed waste review generally will rely on readily available documents gathered as a part of the standard CERCLA site evaluation, such as analytical methods and process knowledge. The identified F-listed waste codes for waste with the potential to be temporarily stored at the SSA are listed in 40 CFR 261.31. In the event that listed waste sources are suspected, the scope of the review will be augmented to target specific operating procedures. For CERCLA units where listed waste sources are reasonably expected, standard operator interviews using questions specifically intended to identify potential sources should be conducted and documented as necessary, with the resulting information submitted with the waste profile.

Although operator interviews will not be used as the sole basis for an affirmative listed waste determination and additional confirmatory documentation or physical evidence is required, operator interviews may indicate the potential presence of a listed waste source. This may indicate the need for more detailed review of contemporary documentation to confirm the presence or absence of the suspected source. Reviews will include evaluations of process knowledge, with respect to the following:

- Listed waste may be designated based on process knowledge and/or analytical data.
- Listed wastes are source-dependent—the mere existence of a particular constituent in a waste stream does not cause a waste to be a listed waste nor does the lack of a detectable constituent prevent a waste from being listed. Knowledge regarding the constituent's source shall be used to establish a listed waste designation.
- If no analytical data or source knowledge exists, the waste need not be designated as a listed waste.
- **4.3.2.5** Land Disposal Restriction (LDR) Requirements. Wastes from outside the WAG 3 AOC must meet the requirements of 40 CFR 268, as applicable.

The applicability and institutions of LDRs for liquid waste for evaporation ponds include the following:

- Evaporation Pond Corrective Action Management Unit (CAMU) (ROD DOE-ID 1999)
- LDR not applicable [40 CFR 264.552(a)(1)].
- **4.3.2.6 Other Hazardous Waste.** Other hazardous wastes that may be accepted on a case-by-case basis at the SSA include the following:
- Organic liquids and chelating compounds—Unstabilized organic liquids (including sorbed organic liquids) exceeding 1% of the waste by weight and unstabilized chelating compounds exceeding 1% of the waste by weight. Organic compounds exceeding 100 × the LDR will not be accepted.
- <u>Lab packs</u>—Only lab packs that contain CERCLA-generated waste will be accepted at the SSA. Lab packs are drums containing several smaller containers of compatible waste chemicals. Lab packs will be packaged so that there are no incompatible materials in each container. The container must be filled with absorbent of sufficient volume to absorb twice the volume of liquid in the container, making it safe for transport. Contents of a lab pack are documented in the container profile.
- <u>Debris</u>—Debris is contaminated solid waste that is greater than 2.5 in. in diameter or particle size, as per 40 CFR 268.2(g). Examples include lumber, concrete, and PPE. Contaminated soils and sludges are NOT classified as debris.
- Other liquids, sludges, and solids—These are generally accepted unless specifically restricted above.

4.3.3 Radioactive Waste Acceptance Criteria

Radioactive wastes are materials contaminated with unwanted radioactive materials regulated by DOE Order 435.1. The SSA is able to receive radioactive wastes for storage or staging, including, but not limited to, miscellaneous trash, respirator cartridges, gloves, glassware, protective clothing, wood or construction materials, or paper/plastic. This also includes liquids, liquids mixed with solids, sludges, soils, debris, or any combination of these.

The radioactive WAC provides the information necessary to receive, store, hold for decay, process, and dispose of radioactive waste in full compliance with state and federal regulations. The generator must have a waste profile completed to assure no delays in the review. The types and amounts of radioactive materials that qualify for acceptance at the SSA are summarized below.

- <u>Radiological concentration limits</u>—The methodology for classification of the radionuclide content of waste is provided in the *Waste Acceptance Criteria for ICDF Landfill* (DOE-ID 2004). The radiological concentration limits are tracked by the IWTS.
- <u>TRU waste</u>—TRU waste exceeds 100 nanocuries per gram of TRU constituents, per DOE Order 435.1. The net weight of the waste (excluding the weight of the container and shielding) must be used to calculate the specific activity of the waste in each container. Only TRU waste generated inside of the WAG 3 AOC will be accepted for storage or staging at the SSA, and only until the waste can be sent to an appropriate facility that manages TRU wastes. TRU waste generated outside of the WAG 3 AOC will not be accepted for storage or staging at the SSA.
- <u>Mobile radionuclides</u>—If the concentration of any mobile radionuclide exceeds the Mobile Radionuclide Reporting Limit listed in the ICDF landfill WAC, stabilization may be required prior to disposal. This stabilization may be accomplished at the SSSTF or other treatment facilities as the capacity becomes available. Following stabilization, disposal may occur on-Site at the ICDF or at an off-Site disposal facility in compliance with the applicable WAC.
- <u>Sealed sources</u>—Sealed sources are encapsulated or hermetically sealed by a manufacturer for the purpose of maintaining the integrity of the source and preventing contamination. Typically, sealed sources are radioactive sources generally used for calibration or equipment checks, gauging devices, or similar uses. Authorization for the receipt of sealed sources will be on a case-by-case basis.
- <u>Uncharacterized IDW and CERCLA remediation waste</u>—This waste is normally generated during INEEL CERCLA field investigations awaiting analysis or other pending documentation requirements. It may include indigenous wastes (i.e., drill cuttings, purge and development water, soils, sludges, and unaltered samples) and nonindigenous waste (e.g., contaminated PPE, samples altered during analysis, and other waste materials generated from collecting and analyzing samples or drilling and installing wells, borings, and test pits). The generator is responsible for ensuring that the waste is properly characterized and for creating and completing a waste profile before the waste can enter the SSA, as applicable.

4.3.4 Mixed Waste

Mixed wastes contain both a hazardous waste component, regulated under RCRA, and a radioactive waste component, regulated under the Atomic Energy Act. The SSA will accept waste that meets both the hazardous and radioactive criteria.

4.3.5 Purge and Development Water

Purge and development water is groundwater withdrawn from wells for the following:

- Developing newly constructed groundwater monitoring wells
- Purging existing wells prior to sample collection
- Testing aguifers
- Periodic cleaning and renovating of existing groundwater monitoring wells.

The SSA will accept purge and development water for storage.

4.3.6 **Drill Cuttings**

Drill cuttings must comply with the WAC outlined for hazardous, radioactive, or mixed waste requirements defined above to be accepted at SSA.

4.3.7 Toxic Substances Control Act (TSCA) Waste

Asbestos and nonaqueous PCB remediation waste or bulk product waste will be accepted for staging at the SSA.

4.4 Waste Form and Container Requirements

At this time, all identified and/or specified waste forms can be accepted at the SSA as long as they are packaged and contained appropriately for the waste form and type that are generated. Waste generators must meet the packaging and containerization requirements described in Section 6. Technology, design, and existing INEEL waste management capabilities will be used to minimize the use of nonstandard waste packages, which will be approved on a case-by-case basis. Requests for nonstandard packing and material shall, as a minimum, address the following:

- Description and justification of nonstandard features
- Nonstandard packaging design, as applicable
- Compatibility analysis for chemical characteristics and packaging for nonstandard material forms
- Container operating procedure, as applicable
- Special handling equipment or requirements
- Rigging design and proof of load test, as applicable
- Transportation system, as applicable
- Transport plan, as applicable.

Specific packaging of hazardous materials shall comply with the hazardous materials table in 49 CFR 172.101. Details on packaging requirements and container requirements for each waste type are outlined in Section 6.

4.5 Exceptions to WAC Requirements (Case-by-Case Acceptance)

The waste types listed on Table 4-3 will be considered for acceptance on a case-by-case basis.

Table 4-3. Summary of items to be reviewed on a case-by-case basis.

| Waste Type | Description |
|--|--|
| Gaseous waste | Gaseous waste packaged at pressures exceeding 1.5 atmospheres (152 kilopascals absolute pressure) at 20°C (68° F). |
| | Ignitable waste (D001) |
| | Corrosive waste (D002) |
| Unstabilized organic liquids >1% of waste/weight | Includes sorbed organic unstabilized chelating compounds >1% of waste/weight. |
| Waste capable of detonation or explosive reaction | Waste capable of detonation or explosive reaction if subjected to a strong initiating source. Waste that is readily capable of detonation or explosive decomposition or reaction at standard temperature and pressure. Waste that is a forbidden explosive as defined in 49 CFR 173.54, or a Class 1 explosive, Division 1.1, Division 1.2, Division 1.3, and Division 1.5, as defined in 49 CFR 173.50. |
| Waste that generates toxic gases, vapors, or fumes | Waste that might generate toxic gases, vapors, or fumes in concentrations that reasonably could be expected to exceed occupational exposure limits and/or air emission standards before disposal (DOE Order 435.1). |
| Infectious/biological waste | Waste containing living organisms that could endanger human health or the health of domestic animals or wildlife by extending the range of biological pests, viruses, pathogenic micro-organisms, or other agents capable of infesting, infecting, or extensively and permanently altering the normal populations of organisms. ^a |
| Used oil | If used oil is deemed nonrecyclable, it may be accepted at the SSA for disposal. Used oil is regulated under 40 CFR 279 and is any petroleum-based oil that has become contaminated or rendered unusable. This also includes used oil filters, which are oil filtration devices that have become contaminated by use. |
| Heat generation waste | If heat generation from radiological decay in the waste package exceeds 3.5 W/m³ (0.1 W/ft³), the package must be evaluated to ensure that the heat does not affect the integrity of the container or surrounding containers in the SSA. This evaluation of waste and the container must be approved by the SSA site OS. |

Table 4-3. (continued).

| Waste Type | Description |
|--|---|
| Uncharacterized IDW and CERCLA remediation/removal waste | This waste is normally generated during INEEL CERCLA field investigations awaiting analysis or other pending documentation requirements. It may include indigenous wastes (i.e., drill cuttings, purge and development water, soils, sludges, and unaltered samples) and nonindigenous waste (e.g., contaminated PPE, samples altered during analysis, and other waste materials generated from collecting and analyzing samples or drilling and installing wells, borings, and test pits). The WAG 3 OS or designee must be contacted to determine acceptability prior to shipment to the SSA. |

a. These wastes are not anticipated to be generated at a CERCLA site but will be considered for acceptance if generated.

4.6 Prohibitions

The waste types not accepted at the SSA are listed in Table 4-4.

Table 4-4. Summary of wastes not accepted at the SSA.

| Waste Type | Comment |
|--------------------------------------|---|
| Aqueous PCB - TSCA waste | Aqueous PCB waste containing >50 ppm PCBs regulated by TSCA as defined by 40 CFR 761.60. |
| High-level waste | Highly radioactive waste material, including the liquid waste, resulting from the reprocessing of spent nuclear fuel. |
| TRU waste (outside of the WAG 3 AOC) | TRU waste that was generated outside of WAG 3 AOC. |
| Recyclable materials | Material that can be used or reused for another purpose, or reclaimed for use as deemed acceptable by the INEEL Waste Minimization organization, should not be brought to the SSA for staging or storage. |

4.7 Nonconforming Waste

If the logic flow diagram, as identified in Figure 1-2, indicates that waste is unacceptable or inappropriate material for the SSA or is material significantly different than profiled for SSA storage or staging, the WAG 3 OS or designee will contact the generator to determine further action.

5. WASTE PROFILE PROCESS

Addressed in this discussion of waste profile process are general requirements, data quality objectives, waste profiles, the process of reevaluating waste profiles, and waste certification.

5.1 General Requirements

Both direct and indirect methods are used to characterize waste. Selection of the method depends on the parameters being measured, hazards associated with acquiring the information, and the amount and quality of data needed. When capable of yielding sufficient information, indirect methods are preferred for obtaining the characterization data, which is consistent with ALARA requirements. Acceptable knowledge can be effective when waste behavior is well known and highly controlled for a predictable product.

Examples of acceptable knowledge elements are as follows:

- Auditable records
- Description of correlation with other processes
- Identification of supporting documentation
- Documented procedures.

Process knowledge may be required to determine any necessary analyses. In cases where process knowledge is not conclusive, characterization may be performed. Based on this information, waste may have to undergo characterization, such as radiological and/or total metal analyses, to determine if the waste exceeds $20 \times$ the LDR. If the results exceed $20 \times$ the LDR, then a TCLP may be performed on each waste, unless process knowledge confirms that these activities are not needed.

5.2 Data Quality Objectives

The data quality objectives (DQOs) process or a comparable process will be used to identify characterization parameters and acceptable uncertainty in characterization data. The intent is not to recharacterize using DQO-identified waste streams, but to ensure that new waste streams are identified and generated and/or that existing streams are significantly modified. DQOs can be used as supporting documentation from the waste generators when they are providing information to meet the WAC.

5.3 Waste Profile

A waste profile, as shown in Appendix B, will be required for each waste entering the SSA. The generator of the waste will provide a completed waste profile prior to anticipated shipping.

The waste generator may include the following information in the waste profile:

- Documented quality assurance program
- Procedures used for sampling, packaging, transporting, laboratory analysis, and data control
- Documentation of procedure/process controls.

In addition, the generator will be required to provide the following information in the waste profile:

- Analytical results
- Radioactivity (concentration and speciation)
- Process knowledge
- Physical description
- Hazardous waste determination
- IWTS number
- Volume/quantity
- Container and packaging type
- Container identification and labeling.

Other information/analyses results that may be required include, but are not limited to, the following:

- Paint filter
- Reactivity
- pH/corrosivity
- Special analytical process required for a specific waste type
- Organic contaminants of concerns for soils $(20 \times LDR)$.

The results of these tests will be included in the waste profile along with all other supporting documentation for the waste.

The waste generator will provide a copy of the analytical results in the waste profile. The waste receives final acceptance at the SSA when the WAG 3 OS or designee signs off on the appropriate shipping document.

The WAG 3 OS or designee can use the information contained in the IWTS and the waste profile to alert future disposal contractors of possible disposal restrictions. If the waste determination at the time of screening does not meet the profile, the WAG 3 OS or designee will either work with the generating WAG until an accurate determination can be made or arrange for further actions.

5.4 Waste Profile Reevaluation Process

The WAG 3 OS or designee will reevaluate a waste profile under the following conditions:

- The process has changed for generating the waste
- Inspection or analysis indicates that the waste received at the SSA does not match the waste identified in the waste profile or is not in compliance with this WMP.

When a waste profile is reevaluated, the generator may be requested to do one or more of the following:

- Verify that the current waste profile is accurate
- Supply a corrected, modified, or new waste profile
- Submit a sample for parameter analysis.

5.5 Waste Certification

The certification program ensures generator responsibility and accountability of the waste being sent to the SSA for disposal. Waste certification is accomplished by the IWTS and is maintained electronically and in hard copy form. The following protocols pertain to the waste certification process:

- The waste profile is signed electronically, certifying that the waste meets appropriate requirements.
- Waste certification will be used again when the waste is transferred out of the SSA to a designated facility. The waste certification is part of the waste profile and is contained in the waste profile folder along with other information from the receiving organization.
- Waste shipped off-Site from the SSA will meet the applicable requirements of the Department of Transportation (DOT), the receiving facility's WAC, and the Off-Site Rule (40 CFR 300.440).
- The WAG 3 OS or designee has the authority to release and sign the waste profile for waste leaving the SSA and verify the signature on the waste profile for waste incoming to the SSA.

The Waste Certification Form will be recorded and maintained in accordance with DOE-ID policy and applicable ARARs.

6. WASTE MANAGEMENT

This section outlines the management processes and practices that will govern potential CERCLA-generated waste prior to shipment, during shipment, upon arrival, and upon acceptance to the SSA.

6.1 Waste Minimization and Segregation

All wastes designated for temporary storage or staging at the SSA will be segregated and/or treated to maximize conformance to waste disposal requirements. Considerations of feasibility, economic costs and benefits, safety, and secondary waste generation must be provided in the planning of CERCLA activities to balance the selection of waste management alternatives. Waste reduction philosophies and techniques will be emphasized as part of prejob briefings, and all personnel will be encouraged to continuously attempt to improve methods for minimizing waste generation. Practices to be instituted to support waste minimization include, but are not limited to, the following:

- Planning preshipment processes to reduce waste rejection by the WAG 3 OS or designee
- Restricting materials (especially hazardous materials) entering radiological buffer areas to those needed for work performance
- Substituting disposable items with recyclable or incinerable items
- Reusing items when practical
- Using alternatives when possible (such as the INEEL Landfill Complex).

All waste storage or staging activities will be planned and managed to promote waste segregation and to minimize waste cross-contamination. Interim storage or staging at the SSA of all WAG-generated CERCLA waste promotes segregation of wastes by managing the wastes in separate locations. Waste generators will segregate wastes to ensure that incompatible wastes are containerized separately and that wastes meet the WAC.

6.2 Management of CERCLA Waste Prior to Storage or Staging at the SSA

CERCLA remedial and removal wastes, along with IDW, will be temporarily managed and stored or staged at the SSA, in compliance with this WMP, until their final disposition through the SSSTF and on-Site at the ICDF, or at an off-Site disposal facility.

All waste received by the SSA must be identified with the following information:

- Waste profile (with analytical results, when possible)
- Proper container labeling
- Proper INEEL waste tracking label generated from the IWTS database.

All waste to be received at the SSA is considered to be on-Site and must be CERCLA-generated waste from within the INEEL boundaries, as this waste is being generated by one entity for the purpose of

disposal by that entity. Waste acceptance requires 100% verification of the waste profile. Further independent waste verification will not be required, although auditing of waste profile generation and generator sampling, analysis, and shipping procedures may be conducted. Any waste with an incomplete or suspect waste profile may be sampled for verification.

6.2.1 Initial Contact

The generating organization must first determine whether the waste satisfies the WAC, detailed in Section 4 of this document, before the waste has been generated and containerized. If the waste meets the WAC for storage or staging at the SSA, the generating organization must then ascertain that the SSA has the necessary capacity. In the event that the SSA does not have adequate capacity, the generating organization will become responsible for locating other suitable space until the waste can be either managed at the SSA or shipped to the ICDF for management or final disposition.

6.2.2 Submission of Waste Profile

When deciding whether a shipment of CERCLA waste could be stored at the SSA, the generating organization must provide an electronic copy of the waste profile for review. As discussed in Section 5, any available analytical and/or process knowledge concerning the waste must accompany the waste profile, and all waste delivered to the SSA for management must be accompanied by a waste profile. Waste arriving at the SSA, without prior approval from the WAG 3 OS or designee, will be rejected without exception, although rejected waste may be resubmitted for acceptance to the facility when appropriately documented.

When the WAG 3 OS or designee receives the waste profile, the OS will review the waste profile for accuracy. If the OS determines that the waste profile is accurate and complete with all supporting documentation, the OS will accept the waste into the SSA. If the OS does not accept the waste profile, the generator will remain responsible for the waste until all discrepancies are corrected.

6.2.3 Delivery of Waste

The waste generating organization is required to prearrange the delivery time and date of all waste shipped to the SSA. These arrangements can be made during the initial contact, if the waste has been accepted for receipt. A shipment sent without prior arrangement may be rejected.

Waste received at the SSA from outside the WAG 3 AOC will be accompanied by either a hazardous waste manifest or a bill of lading. The hazardous waste manifest or bill of lading will be placed in the hard copy file of the material profile. Shipment of waste from a CERCLA waste staging or storage area within the AOC to the SSA will be documented in IWTS with the use of a ship task.

6.2.4 Packaging

Packaging of CERCLA-generated waste shall be in compliance with the OU 3-13 ROD ARARs. Container specifications are listed in Table 6-1. It is recommended that generators reduce void spaces in containers as much as possible.

CERCLA-generated waste materials must be stored and transported in containers that are in good condition, are compatible with the waste, and meet the DOT specifications. The DOT regulations, which provide standards for properly packaging hazardous material and hazardous waste (49 CFR 172), must be followed to determine the proper containers for the management of each waste stream.

Table 6-1. Acceptable containers by waste type.

| Waste Type | 55-Gallon Drum ^a | Roll-Off Containers ^a | Container with Secondary Containment | INEEL Wood Boxes ^a $2 \times 4 \times 8 \text{ ft}$ $4 \times 4 \times 4 \text{ ft}$ $4 \times 4 \times 8 \text{ ft}$ |
|--------------------------------------|--------------------------------|-------------------------------------|--------------------------------------|--|
| Hazardous | XX | XX | b | XX |
| RAD^{c} | XX | XX | b | XX |
| RAD & mixed RAD ^c | XX | XX | b | XX |
| Asbestos-TSCA | XX | d | b | XX |
| Asbestos-TSCA/RAD waste ^c | XX | d | b | XX |
| Purge/development water | b | d | XX | d |
| Case-by-case | ь | b | b | b |

a. Roll-offs and INEEL wood boxes will be lined with polyethylene liners (or supersacks). Roll-off containers will have covers. Drums will have polyethylene liners when required.

NOTE: Other types of containers may be used if they have received approval prior to shipment.

Packaging of all waste materials designated for the SSA will be in compliance with DOT regulations and RCRA regulations found in 40 CFR 264, Subparts I and J. The WAG 3 OS or designee should be consulted prior to the generation of any new waste to identify the specific types of containers required for the anticipated wastes.

6.2.4.1 Container Compatibility. Not all wastes are compatible with every type of container. Some acids will destroy metal drums, and some organic solvents will dissolve plastic containers. As no universal container can be used for transportation on the INEEL facility (40 CFR 300.5) or for storage or staging of all hazardous materials, it is critical that compatible shipping containers be identified whenever a new waste stream is generated or when any changes are made to an existing waste stream. Before the accumulation of the waste begins, the DOT hazardous materials table, found in 49 CFR 172.101, should be consulted. This hazardous materials table presents the following:

- A list of the names of hazardous material, in alphabetical order
- The hazard class associated with each hazardous material
- A reference to the proper container(s) to be used for packaging the hazardous material
- The label to be applied to the container before transport
- A reference to other regulations that may apply, depending on the method used to ship the container.

b. Wastes accepted on a case-by-case basis could require special container requirements. Therefore, the generator must verify proper containers with the hazardous materials table in 49 CFR 172.101.

c. Low-level radioactive waste shall be packaged for disposal in accordance with 10 CFR 61.56(a). The container must also be surveyed to ensure occupational exposures to radiation are < 500 mR/h at 1 meter for the exterior of the container. If the container's radiation is > 500 mR/h, the container must be shielded by other containers while within the SSA.

d. Not an acceptable waste type for this container.

The guidelines below describe the steps for using the Hazardous Materials Table to determine the correct container for a specific hazardous waste. Users can identify the appropriate containers by

- Determining the hazard and the major constituents of the waste stream. (For example, deciding whether the waste stream consists primarily of paint-related material, is flammable, is a spent solvent such as MEK, or is a corrosive material.)
- Referencing the name from the table that best describes the waste. Users should remember that the tables are for hazardous material but that the descriptions are also applicable to wastes. Therefore, to identify the proper DOT name for waste, the user would use the DOT name from the table but would add the word "Waste" to the name.

Note: If there is not a DOT description that adequately describes the waste stream, users may choose to substitute one of the following designations: "Environmentally Hazardous Substance," "Hazardous Substance," "CERCLA Waste," or "Hazardous Waste," which are also contained in the hazardous materials table. Each of these designations (and various other shipping names) is followed by the initials n.o.s. (not otherwise specified). When the n.o.s. designation is used, the shipper must provide a description of the primary and secondary hazardous material or constituent associated with the waste in parentheses after the proper DOT shipping name.

No waste material shall be placed in an unwashed container that previously held an incompatible waste or material [40 CFR 264.177(b), IDAPA 58.01.05.008]. Furthermore, two or more incompatible wastes must not be stored in the same container, as this could have catastrophic results [40 CFR 264.177(a), IDAPA 58.01.05.008].

- **6.2.4.2 Container Handling.** Containers received at the SSA are off-loaded from the transport vehicle to the storage or staging area. The containers are inspected, placed in the appropriate storage or staging location, labeled as discussed in Section 6.2.5, and kept closed except when waste is added or removed or when being managed as identified in Section 6.3. Containers are placed so that the compatibility markings are visible for inspection. The health and safety procedures for handling containers at the SSA will be developed prior to personnel actually handling any waste containers.
- **6.2.4.3 Container Types.** All containers shall conform to the hazardous materials table in 49 CFR 172.101, which includes assigning DOT hazard class/divisions and proper shipping names. Containers of waste shall not be opened, handled, or stored in a manner that will cause leakage [40 CFR 264.173(b), IDAPA 58.01.05.008]. When CERCLA remediation wastes are shipped from various WAGs to the SSA, the waste generator will be required to ensure that the waste is packaged in accordance with 49 CFR 172.101.
- **6.2.4.4** Fifty-five-Gallon Steel Drum. The DOT weight limit for a United Nations 1A2 55-gal drum is 1,000 lb.
- **6.2.4.5** *Roll-Off Containers.* Roll-off containers are constructed according to general manufacturing specifications.
- **6.2.4.6 INEEL Wooden Boxes.** The maximum-loaded gross weight, uniformly distributed, for the INEEL wooden boxes is 12,800 lb. The generating organization must ensure that sufficient blocking is used to keep heavy items in place and to distribute the load uniformly within the container. INEEL wooden boxes are constructed to the specifications identified in applicable company procedures and policies.

6.2.4.7 TSCA Storage or Staging Containers. Before an asbestos or PCB TSCA-regulated waste container may be accepted for storage or staging, the following requirement shall be met:

- Asbestos waste will be packaged and labeled in accordance with the INEEL Site Asbestos Program
- The integrity of containers used for managing the PCB bulk solid (nonliquid) product and remediation wastes will be assessed by SSA personnel prior to transfer to the SSA.
- If the waste in the container is incompatible with other materials stored nearby, distance or barriers shall separate the containers to prevent mixing in case of rupture [40 CFR 264.177 (c), IDAPA 58.01.05.008].

6.2.5 Labeling

Table 6-2 indicates the label specified for each type of waste.

Table 6-2. Label identification table.

| Waste Type | Radioactive | CERCLA Waste | TSCA Waste | Pending Sampling and Analysis | IWTS Barcode or Number |
|----------------------------------|--------------------|-----------------|--------------------|-------------------------------------|---------------------------|
| Hazardous waste | NA^a | XX | NA | XX (if applicable) | XX |
| Radioactive | XX | XX | NA | XX (if applicable) | XX |
| Mixed | XX | XX | NA | XX (if applicable) | XX |
| TSCA (asbestos waste only) | XX | XX | XX | XX (if applicable) | XX |
| Other asbestos/radioactive waste | XX | XX | XX | XX (if applicable) | XX |
| Purge and development water | XX (if applicable) | XX | NA | XX (if applicable) | XX |
| Case-by-case (waste-dependent) | XX (if applicable) | XX | XX (if applicable) | XX (if applicable) | XX |
| a. NA = not applicable | | | | | |

The marking on the containers must always be clearly visible for inspection of each container, and all container labels must be placed where they are clearly visible during storage or staging and shipment. Drums will be labeled on one side in a manner so the label is visible during inspections. Boxes will be labeled on two opposing sides of the container and placed in a manner that the label is visible during inspections. Containers of waste shall not be opened, handled, or stored in a manner that will cause leakage (40 CFR 264.173(b), IDAPA 58.01.05.008).

6.2.5.1 Radioactive Waste. As required by applicable company manuals, radiation labels will be completed by a radiological control technician and placed on two opposing sides of the container in a manner so the label is visible during inspections. Radiation dose may also be written on the container to facilitate ease of reading dosage while keeping in line with ALARA.

6.2.5.2 CERCLA Waste. Standardized labels are available that provide the required information and blanks for site-specific information. All CERCLA remediation waste will be labeled with a "CERCLA Waste" label that includes an accumulation start date, waste description, applicable codes, and the generator's name. Figure 6-1 provides an example of a standard label.

| CERCLA WASTE |
|---|
| Operable Unit: |
| Hazardous Waste Code(s): |
| Date Placed in Storage: |
| Waste Form: (liquid, solid, soil, PPE, etc.): |
| For Information Contact: |

Figure 6-1. Standard CERCLA waste label.

- **6.2.5.3 TSCA Waste Labels.** Asbestos-containing material with excessive radioactivity levels may be a candidate for the SSA. Generators will obtain labels for asbestos labeling and all asbestos-containing material will be labeled per the Site Asbestos Program.
- **6.2.5.4 Pending Analysis.** Waste from outside the WAG 3 AOC should not arrive at the SSA prior to profile acceptance. If waste does not have analysis documentation, the generator must keep the waste until analysis results are received and the waste profile has been properly filled out.

If waste from within the WAG 3 AOC does not have analysis documentation, the generator must label the container "CERCLA Waste, Analysis Pending."

The generator is ultimately responsible for ensuring that the waste is properly analyzed and profiled before it is shipped to the SSA.

6.2.5.5 IWTS Barcode. Each container will have a barcode generated by the IWTS database. This barcode will be obtained from the WAG 3 OS or designee.

6.3 Management of Waste at the SSA

Table 3-1 identifies the waste types that may be accepted into the SSA. Within the SSA storage capacity, the waste may be allotted separate staging or storage areas that not only allow the waste from the different groups to be segregated, but also allow different types of waste to be staged or stored in separate areas if segregation is required due to incompatibility. Potential waste includes solid waste, hazardous waste, radioactive waste, purge and development water, asbestos waste, mixed waste,

transuranic waste, orphan waste, IDW, secondary waste, construction waste, and other waste that will be considered on a case-by-case basis, as described in Section 4.5.

Management of waste within the SSA may also include opening containers to perform a visual assessment of the waste, sampling activities, or the addition of absorbent to waste containers determined to contain condensation/free liquids that may be the result of condensation within the waste container or inadequate sealing of the container.

6.3.1 Waste Evaluation and Acceptance

A waste evaluation and confirmation process will be conducted to ensure that the waste accepted by the facility meets all waste acceptance requirements. This process may consist of one or more of the following:

- Testing, sampling, and analysis of the representative samples received at the facility or taken by the generator facility
- Review of sampling/analysis data by a facility or independent laboratory
- Audits, surveillance, and/or observations of the generator's waste characterization activities.

6.3.2 Waste Staging

For all waste staged at the SSA, the following applies:

- Only solid, nonflowing remediation wastes will be staged in soil piles.
- Wastes other than solid, nonflowing remediation waste may not be placed in the waste staging section of the SSA.
- Soil piles will be placed on impervious liners. This shall meet, at a minimum, the design standards for remediation waste staging piles as specified in Section 5.1 of DOE-ID (2003).
- A 2% slope away from the soil waste pile will be maintained to ensure proper drainage.
- The bottom liner material for the soil will be of sufficient strength/design to withstand the planned staging and subsequent removal of soils.
- The bottom liner will extend at least 5 ft beyond every edge of the waste soil pile.
- An impervious man-made material will be used to cover the soil piles at all times when the soil is not being actively managed (that is, placing, sampling, or removing waste). The cover will extend beyond the bottom liner and will be secured so that the staging pile soils are not exposed to the wind, precipitation, or elements. The cover will be impervious material sufficient to withstand site conditions (that is, sun, wind, cold, heat, and movement to expose/cover the working face).
- Waste will not be added or removed during inclement weather (that is, periods of precipitation and/or high winds).
- The working face and liner will be covered with waste soils at the end of each workday.
- Incompatible wastes will not be stored in close proximity.

- Soils will be managed in waste staging piles in a manner that will eliminate any potential run-on/run-off from entering the staging pile, or run-off from contacting the soils, thus eliminating the need to contain run-off.
- After completing construction, appropriate signs, ropes, etc, will be put up.

If containers will be used for staging of solid, nonflowing remediation wastes, they will comply with the following requirements:

- All waste entering the SSA will be appropriately segregated to ensure compatibility. Prior to the shipment of waste to the SSA, the generator will package the waste in containers that are made of or lined with materials that will not react with, and are otherwise compatible with, the waste to be stored, so that the ability of the container to contain the waste is not impaired. Waste Generator Services (WGS) and Packaging and Transportation personnel will provide guidance on waste compatibility and container use by means of DOT regulations, company procedures, and chemical compatibility charts.
- As required under 40 CFR 264.35, minimum aisle space will be maintained to allow unobstructed movement of personnel, fire protection equipment, spill control equipment, and decontamination equipment to any area of the SSA operation in an emergency.
- As required by this WMP and the ICDF WAC, all wastes will be absent of free liquids.

6.3.3 Waste Storage

For all waste stored at the SSA the following applies:

- Containers storing ignitable waste will be located at least 15 m (50 ft) inside the facility property line (40 CFR 264.176). For the purposes of this document, the "facility property line" is the INTEC fence line.
- All waste entering the SSA will be appropriately segregated to ensure compatibility. Prior to the shipment of waste to the SSA, the generator will package the waste in containers that are made of or lined with materials that will not react with, and are otherwise compatible with, the waste to be stored, so that the ability of the container to contain the waste is not impaired. WGS and Packaging and Transportation personnel will provide guidance on waste compatibility and container use by means of DOT regulations, company procedures, and chemical compatibility charts.
- Newly generated wastes will be assessed for compatibility with wastes currently stored in the SSA per 40 CFR 264, Appendix V.
- SSA personnel will provide oversight during waste generation/containerization in the field. This field activity will supplement the material and container profile sheet data to evaluate whether adjacent containers hold compatible materials. This oversight will include observations of possible pressure build up of newly containerized wastes, precipitates from evaporation, unusual color or viscosity for waste description, etc. Suspect wastes will be identified and segregated from other wastes to the extent that, any potential releases would not produce effects that are harmful to human health and the environment such as (1) heat or pressure; (2) fire or explosion; (3) violent reaction; (4) toxic dusts, mists, fumes, or gases; or (5) flammable fumes or gases.

- As required under 40 CFR 264.35, minimum aisle space will be maintained to allow unobstructed movement of personnel, fire protection equipment, spill control equipment, and decontamination equipment to any area of the SSA operation in an emergency.
- As required by this WMP and the ICDF WAC, all wastes will be absent of free liquids.
- **6.3.3.1 Solid Waste.** Solid waste will be nonhazardous/nonradioactive solid waste consisting of office waste and inert demolition waste. Typically, this waste will be shipped to the INEEL Landfill Complex. In the event that the INEEL Landfill Complex cannot accept a waste shipment of this type, the generator must then make arrangements for proper disposal of the solid waste. In some cases, solid waste may be accepted at the SSA for temporary storage.
- **6.3.3.2 CERCLA Waste.** It is anticipated that all containers of CERCLA waste will be staged or stored in the SSA until the ICDF Complex is operational. Wastes staged and stored at the SSA shall be maintained and operated to minimize the possibility of fire, explosion, or any release of hazardous waste (40 CFR 264.31, IDAPA 58.01.05.008).

6.3.4 Tracking and Reporting

To ensure that all CERCLA-generated waste is accurately tracked, all waste containers will have a unique IWTS barcode. The container numbers are generated automatically by the IWTS. A handheld barcode scanner can be used in the field to obtain up to date information for any container. Container information can also be accessed on any WGS computer terminal at the INEEL. Currently at INTEC, there are WGS computers located in CPP-656. The individual container numbers are associated with and maintained in the material (parent) profile. The IWTS has the ability to track infinite genealogies for any given container and identify and generate additional container numbers. The database will also be used to generate any necessary reports.

6.3.5 Periodic Inspections

Container inspections will be conducted weekly to monitor the facility for the following:

- Leaks and/or deterioration caused by corrosion or other factors (40 CFR 264.174)
- Security issues [40 CFR 264.14(a), (b) and (c) and IDAPA 58.01.05.008]
- Other required periodic inspection items.

The inspection form must be completed, dated, and signed. The actual inspection checklist used for weekly inspections of the storage areas is shown in Appendix C. The inspection checklist used for weekly inspections of the staging area is shown in Appendix D. The deficiency resolution tracking tables found in Appendix C and Appendix D will be completed for each deficiency identified on the inspection checklists for the staging and storage areas. The item number will be noted and the nature of the deficiency described in the table. Each week, the status of previously identified deficiencies that have not yet been resolved will be indicated. When any deficiencies are resolved, they will be documented in the "Deficiency Resolution Status" column describing how the deficiency was corrected and any applicable documentation will be placed in the project file.

Personnel monitoring and an RWP are required of workers entering any radiation area. Further monitoring is not required.

6.3.6 Further Sampling

The generating organization will be responsible for performing any additional sampling requirements not known at the time the waste is brought to the SSA. Although the practice of delivering waste to the SSA prior to full analysis will be discouraged, some waste may arrive requiring additional analysis.

6.3.7 Spill Containment

In the case of an unauthorized release of hazardous materials to state waters or to land where there is a likelihood that it will enter state waters, the responsible person in charge (IDAPA 58.01.02.850) will

- Make every reasonable effort to abate and stop a continuing spill.
- Make every reasonable effort to contain spilled material in such a manner that it will not reach surface or groundwater of the state.
- Immediately notify the INTEC shift supervisor. The INTEC shift supervisor will facilitate appropriate notifications such as the IDEQ and the DOE-ID or designated agent of the spills.
- Spills of PCBs are cleaned up in accordance with Subpart G of 40 CFR 761.
- Collect, remove, and dispose of the spilled material in a manner approved by the IDEQ.
- Immediately notify the WAG 3 OS or designee.

6.3.8 Emergency Response

The INEEL has emergency response procedures established in "INEEL Emergency Plan/RCRA Contingency Plan, Appendix L20," and the Spill Prevention, Control and Countermeasures Plan is located in Appendix G of PLN-114-2, Rev. 3, dated November 24, 1999.

In addition to the requirements of the plan, there shall be sufficient aisle space to allow the unobstructed movement of emergency equipment and personnel (40 CFR 264.35, IDAPA 58.01.05.008).

6.4 Training

WAG 3 maintains full-time health and safety personnel to provide training and direction on safety and operating standards, continually monitoring compliance with all rules and regulations as directed by the Health and Safety Plan (HASP) for the INTEC Radionuclide Contaminated Soils Removal Action (INEEL 2002). All training will be consistent with 10 CFR 835, DOE Order 5400.5, IDAPA 58.01.05.008, and 40 CFR 264.16(a)(1)(c). The compliance monitoring includes identifying retraining needs and administering the Industrial Hygiene Program. Required training items are further discussed in the HASP (INEEL 2002).

6.5 Closure

The SSA storage area may be retained as a storage facility should there be a need for CERCLA storage after the lifetime of the ICDF landfill. However, if the SSA is not needed, it will be clean-closed. As necessary, contaminated asphalt, concrete, area subsoil, and fencing will be removed and placed in the ICDF landfill.

The SSA has a 40 CFR 264.554 area for staging waste. This area is planned to be closed in accordance with the substantive requirements of 40 CFR 264.554 on or before closure of the ICDF Complex. The remaining portion of the SSA designated as the SSA storage area may continue to operate as a storage area in accordance with 40 CFR 262.34(a)(1), meeting the requirements of 40 CFR 264. Closure of the SSA storage area will be performed in accordance with the substantive requirements of 40 CFR 264 Subpart G. Notification of closure will be submitted to the Environmental Protection Agency and Idaho Department of Environmental Quality (IDEQ) before the closure activities for the SSA begin.

The following general activities will be performed in closing the SSA:

- Site and operations will be assessed for spills or releases as part of the closure activity. If there were no spills or releases or if those spills/releases were removed, then this information would be documented to support clean closure of the area.
- Contaminated materials, equipment, or subsoil will be placed in the ICDF landfill, if available. If
 the ICDF is not available and an alterative INEEL facility has not been identified, an off-Site
 facility meeting the requirements of 40 CFR 300.440 will be used for management and disposal of
 the CERCLA wastes generated during closure.
- Verification sampling will be performed to document the removal of contamination from releases and spills, if present.

6.6 Records

Records, including hard copy records, are maintained on the Electronic Document Management System in accordance with company, CERCLA, and National Archive and Records Administration guidelines. This system can be accessed from any INEEL computer terminal that has access to the INEEL Intranet. The records and documents that will be kept and maintained include the following:

- Waste profiles and any accompanying information (i.e., analytical results, memos, sampling plans)
- Inspection records
- Tank records until closed per 40 CFR 264, Subpart J, and IDAPA 58.01.05.008
- Asbestos waste records
- Audit, surveillance, and observations of generator's waste characterization activities
- Training records
- Any other applicable documentation.

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Appendix A

SSA As-Built Drawings, Design Drawings, and Specifications

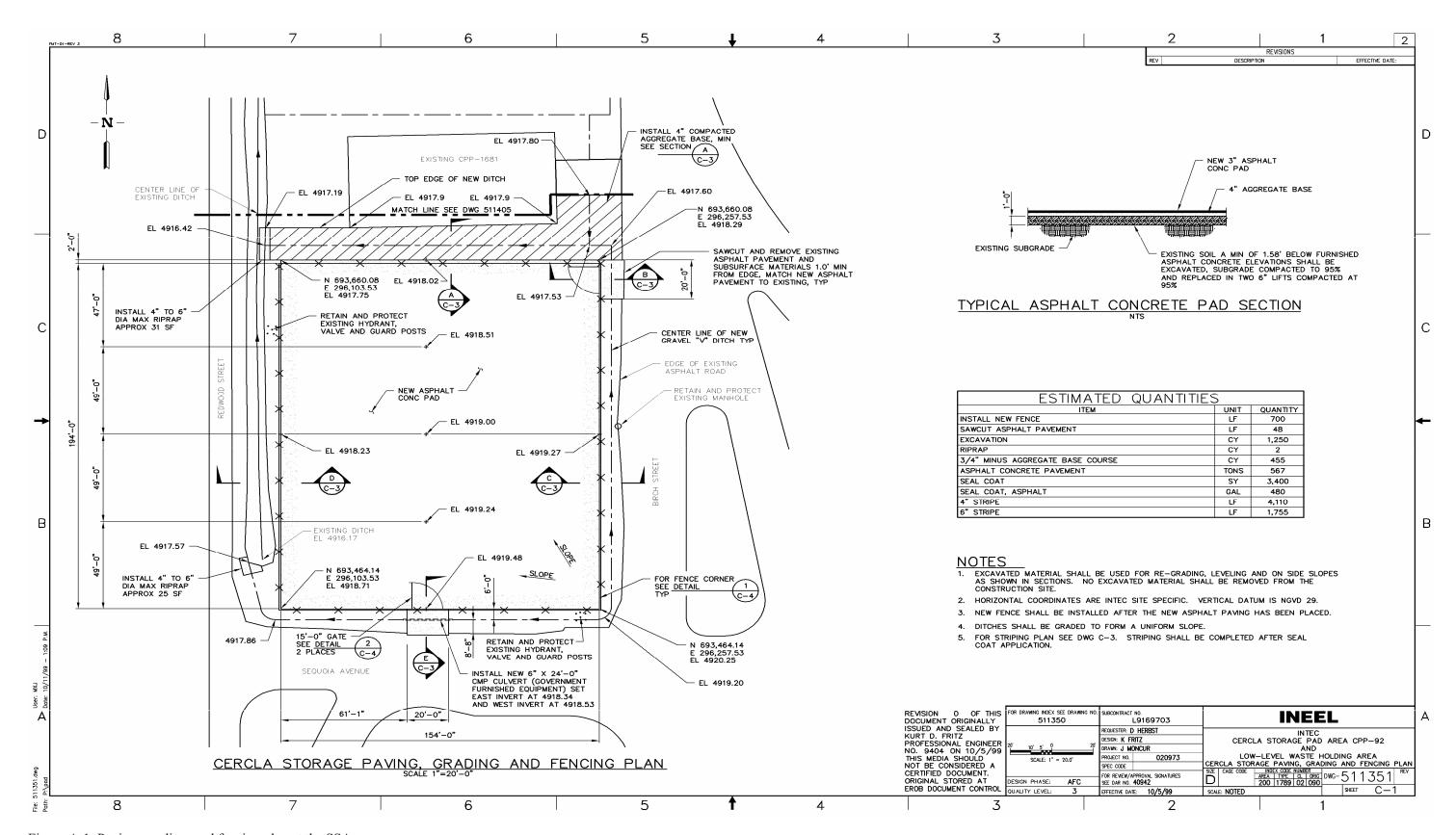


Figure A-1. Paving, grading, and fencing plan at the SSA.

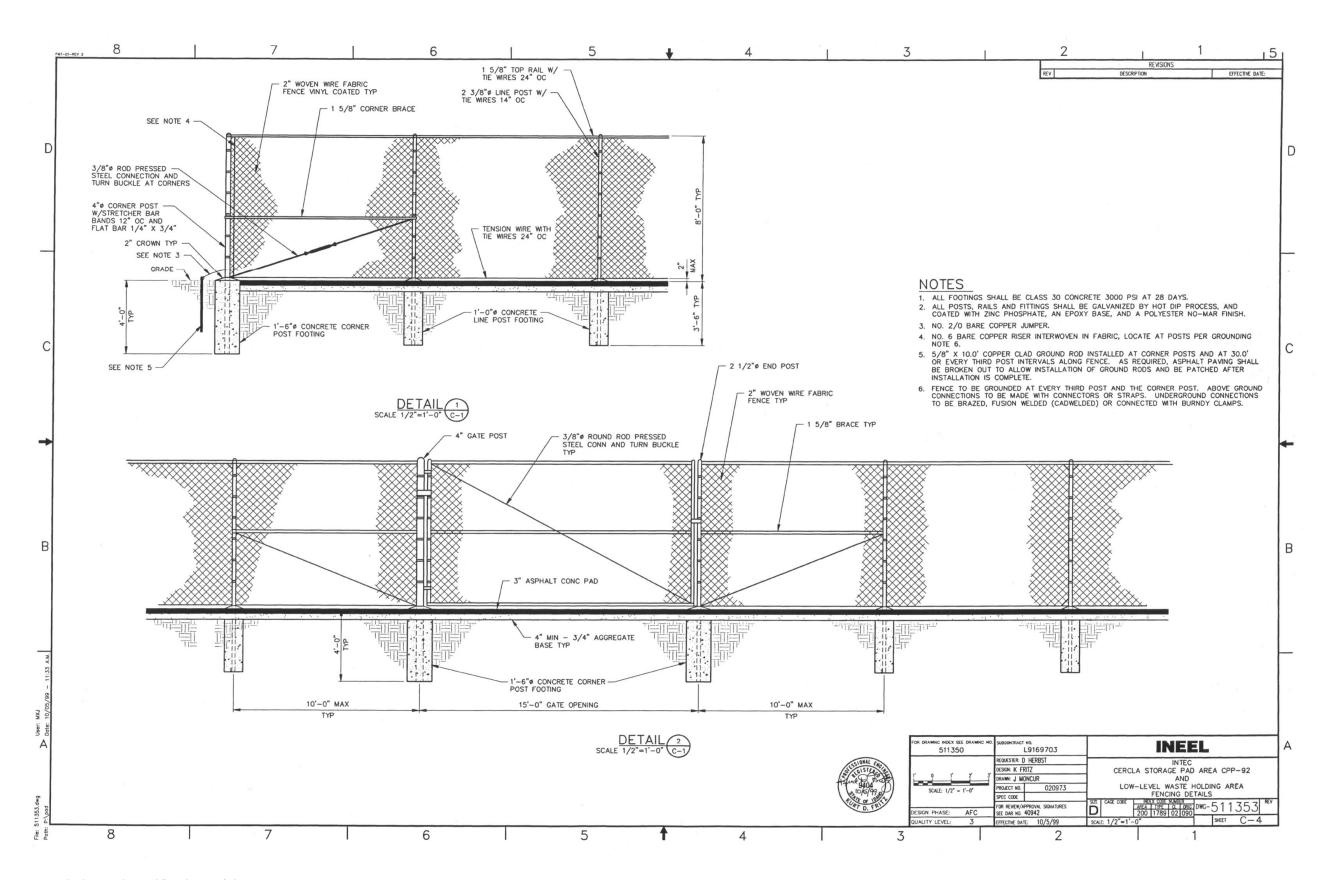


Figure A-2. Fence design and specifications of the SSA.

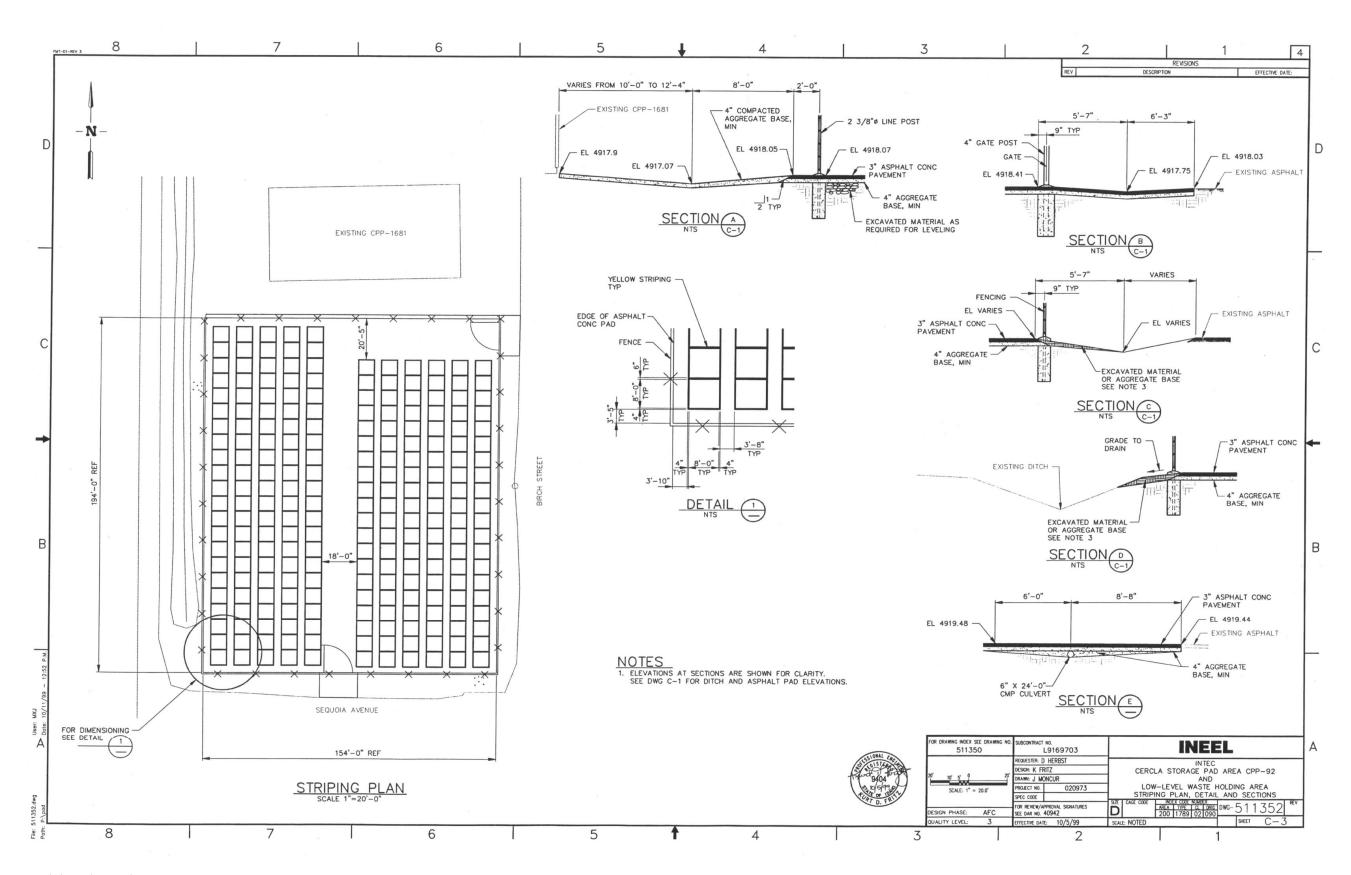


Figure A-3. Striping plan at the SSA.

Appendix B

Waste Profile

Appendix B

Waste Profile



Integrated Waste Tracking System Material and Waste Characterization Profile INFORMATION ONLY



3204Q : Sample MP

Waste Stream Information

Material Profile No.: 3204Q

Profile Date: 14-Feb-2002

Profile Name: Sample MP

Site Treatment Plan ID: ID-TEC-201

FAX: E-Mail:

Generating Location: OU3-04: WAG 3 Operable Unit 3-04

Waste Type and Action: MLLW: CERCLA Generated to be Dispositioned at the ICDF Complex

Status: Active (waste currently being generated)

| | | Inactive (waste not cu | rrently being generated) |
|------------------|---------|------------------------|--------------------------|
| | | Cancelled (waste nev | er generated) |
| | | | |
| | | Certificati | on, Review, & Approval |
| Certified | Name: | | |
| | Date: | | |
| | Phone: | | |
| | FAX: | | |
| | E-Mail: | | |
| | | | |
| Reviewed | Name: | | |
| | Date: | | |
| | Phone: | | |
| | FAX: | | |
| | E-Mail: | | |
| | | | |
| Approved | Name: | | |
| | Date: | | |
| | Phone: | | |
| | FAX: | | |
| | E-Mail: | | |
| | | | |
| | | Last Profil | e Update and Approval |
| Updated/Approved | Name: | | |
| | Date: | | |
| | Phone: | | |

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Integrated Waste Tracking System Material and Waste Characterization Profile INFORMATION ONLY



3204Q : Sample MP

| | | | General I | nformation | 1 | | | | | |
|----------------|---|---|-------------------|--------------------|-----------|------------------------|-------------------|-----------|--|--|
| 1. | If "No", receiving organizat a. Waste Acceptance Cr | terial and waste characteriz tion approval and completio riteria requirement(s) not m | n of the followir | g is required: | | pplicable Waste Acc | eptance Criteria? | | | |
| | b. Receiving organizatio | on approval letter number fo | r nonstandard ı | naterial or waste: | : | | | | | |
| | Contact | Name | | E-Mail ID | | Phone | Pager | Mail Stop | | |
| 2. 3. | Generator Contact Technical Contact | | | | | | | | | |
| 4. | Charge Number: Material or waste type and | action: MLLW: CERCLA | Generated to be | e Dispositioned a | t the ICD | F Complex | | | | |
| 5. | Profile Name: Sample MP | | | | | | | | | |
| 6. | NOTE, Indicates whether | | | | | | | | | |
| 7. 8. 9. | Generating process description Physical state at 70 degree Yes No Does the | | | | | | | | | |
| 10. | ✓ Yes No Current | waste minimization plan? (I | NEEL Concret | ora Only) | | | | | | |
| 10. | Garrone | ce: Sample | INCLE General | ors Offig) | | | | | | |
| 11. | | се. Запіріе | | | | | | | | |
| √ | CERCLA | Nonfriable asbestos | Compresse | d gas cylinders | Waste | water | Debris - 435.1 | | | |
| | Scrap Metal | FIFRA | Friable asb | | | fied material | Debris - Non RO | CRA/435.1 | | |
| П | OSHA carcinogen | Unused material | ✓ Soil | | | ntable nuclear materia | | | | |
| П | PCB >= 50 ppm | Used oil | Debris - RC | RA [| | PPM VOCs | | | | |
| | Etiologic Agent | Aerosol cans | Spill cleanu | | | sal Waste | | | | |
| _ | | | op o.ounu | | - 0 | | | | | |

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Report[MaterialProfile], Integrated Waste Tracking System



Integrated Waste Tracking System Material and Waste Characterization Profile

INFORMATION ONLY



3204Q : Sample MP

| _ | | | | | | | | | | | |
|-----|---|-------------|-------------|------------------|--------------|---------------|--------------|---------------------|---------------------|---------------------|---------------------|
| 12. | ✓ Yes | No Is | s this DOT | regulated haz | zardous m | aterial? If y | es, identif | y DOT primary haz | ard: Radioactiv | e, Class 7 | |
| | and DOT subsidiary hazard(s): | | | | | | | | | | |
| 13. | Yes No At the point of generation did this material contain RCRA "F", "K", "U", or "P" listed waste either in pure form, as a mixture, or as a treatment residual (i.e., ash, leachate, spill cleanup), or "D" characteristic waste? If yes, give applicable EPA: | | | | | | | | | | |
| | Source Co | ode: G43 | : Remed | iation of Past | Contamina | ation : Reme | edial action | or emergency res | ponse under Sup | perfund | |
| | Form Cod | le: W409 |): Organi | c Solids : Othe | er organic | solids | | | | | |
| | and EPA | Hazardous | Waste No | umbers (40 Cl | FR 261): | F001,F002,F | -005 | | | | |
| | and attach | n applicabl | e LDR not | ification and c | ertification | (40 CFR 26 | 61) | | | _ | |
| 14. | RCRA haz | zardous wa | aste deteri | mination was | made by: | Waste | analysis, | Process know | vlege and/or ✓ | Both | |
| 15. | Yes | ✓ No D | oes this M | laterial Profile | contain La | ab Packs? | | | | | |
| 16. | ✓ Yes | No \ | Was an Un | derlying Haza | rdous Cor | nstituent (UH | IC) determ | nination preformed | ? | | |
| | 16a. | Yes ✓ | No If a | UHC determin | ation was | performed, | were any | detected in concer | trations exceedin | g the Universal Tr | eatment Standard? |
| | | | | | | | | | | | |
| 17. | Yes | √ No Is | supportin | g documentat | ion submit | tted? If yes, | list: | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| 40 | | ¬ т | ha fallawia | a data bu na | romotor b | as boon pro | vidod alon | a with analytical d | ata (required for v | vaete to be disnosi | tioned at the ICDF) |
| 18. | Yes | | | dard Deviation | | | vided alon | g with analytical d | ita (requirea foi v | vaste to be disposi | tioned at the rep. |
| | | | | | | | | | | | |
| 19. | Yes | √ No A | dditional n | arrative: | | | | | | | |
| | | | | | Curre | nt Gene | eration | Estimates | | | |
| | Estimate | Start | Int. | Volui | ne | Ma | ss | Data E | ntry By | Inactiva | ted By |
| | Date | Year | Yrs. | Quan. | Units | Quan. | Units | User ID | Date | User ID | Date |
| 1 | 4-Feb-2002 | 2002 | 1 | 100000.00 | FT3 | 520255 | LBS | CurnuttJ | 14-Feb-2002 | | |
| | | | | | | | | | | | |
| | | | | | Cha | racteris | stics o | f Material | | | |
| 1. | Physical Ch | aracteristi | cs of Mate | rial | | | | | | | |
| | , | characteris | | | | | | | | | |
| | | | Layer | DI | nysical Sta | ato | | Range of Percenta | ne | Description | on |
| | | | No. | | 70 degree | | r | of Total | 90 | (as required l | |
| | | | 1. | | solid | | 0 | to 100 | wt% | Brown | |

Report[MaterialProfile], Integrated Waste Tracking System



14-Feb-2002

Integrated Waste Tracking System Material and Waste Characterization Profile

INFORMATION ONLY

3204Q : Sample MP

| se liquid - Orga se liquid - Aque sorbents elating agents ueous liquid wi reactives ter reactives ming acids or a ock sensitive co olosives ophorics roleum produc dizers uzene 3s >= 25 ppm 3 liquids 3 capacitors/ba 8 transformers | enic based eous based th reactive cy th reactive su cid gases constituents ts f Material (co | s or derived to | 50 ppm | f PCB liquid |
|--|--|----------------------------|----------------------------------|--|
| see liquid - Orga see liquid - Aque sorbents elating agents ueous liquid wi reactives ter reactives ming acids or a ock sensitive co olosives ophorics roleum produc dizers as >= 25 ppm 38 iquids 38 capacitors/ba 38 transformers 38 liquid contam 38 >= 50 ppm | enic based eous based th reactive cy th reactive su cid gases constituents ts f Material (co | ulfide >= 500 | i0 ppm I ppm | |
| see liquid - Orga see liquid - Aque sorbents elating agents ueous liquid wi reactives ter reactives ming acids or a ock sensitive co olosives ophorics roleum produc dizers as >= 25 ppm 8 liquids 8 capacitors/ba 8 transformers, 8 liquid contam 8s >= 50 ppm | enic based eous based ith reactive cy th reactive su cid gases constituents ts fregulators inated debris | ulfide >= 500 | i0 ppm I ppm | |
| see liquid - Orga see liquid - Aque sorbents elating agents ueous liquid wi ueous liquid wi reactives ter reactives ming acids or a ock sensitive co olosives ophorics roleum produc dizers uzene 3s >= 25 ppm 3s liquids 3 capacitors/ba 3 transformers 3 liquid contam | enic based eous based th reactive cy th reactive su acid gases constituents ts | ulfide >= 500 | i0 ppm I ppm | |
| see liquid - Orga see liquid - Aque sorbents elating agents ueous liquid wi ueous liquid wi reactives ter reactives ming acids or a ock sensitive co olosives ophorics roleum produc dizers uzene 3s >= 25 ppm 3s liquids 3 capacitors/ba 3 transformers 3 liquid contam | enic based eous based th reactive cy th reactive su acid gases constituents ts | ulfide >= 500 | i0 ppm I ppm | |
| see liquid - Orga see liquid - Aque sorbents elating agents ueous liquid wi ueous liquid wi reactives ter reactives ming acids or a ock sensitive co olosives ophorics roleum produc dizers uzene 3s >= 25 ppm 3s liquids 3 capacitors/ba 3 transformers 3 liquid contam | enic based eous based th reactive cy th reactive su acid gases constituents ts | ulfide >= 500 | i0 ppm I ppm | |
| see liquid - Orga see liquid - Aque sorbents elating agents ueous liquid wi ueous liquid wi reactives ter reactives ming acids or a ock sensitive co olosives ophorics roleum produc dizers uzene 3s >= 25 ppm 3s liquids 3 capacitors/ba 3 transformers 3 liquid contam | enic based eous based th reactive cy th reactive su acid gases constituents ts | ulfide >= 500 | i0 ppm I ppm | |
| see liquid - Orga see liquid - Aque sorbents elating agents ueous liquid wi ueous liquid wi reactives ter reactives ming acids or a ock sensitive co olosives ophorics roleum produc dizers uzene 3s >= 25 ppm 3s liquids 3 capacitors/ba 3 transformers 3 liquid contam | enic based eous based th reactive cy th reactive su acid gases constituents ts | ulfide >= 500 | i0 ppm I ppm | |
| se liquid - Orga se liquid - Aque sorbents elating agents ueous liquid wi reactives ter reactives ming acids or a ock sensitive co olosives ophorics roleum produc dizers uzene 3s >= 25 ppm 3 liquids 3 capacitors/ba 8 transformers | enic based eous based th reactive cy th reactive su acid gases constituents ts | ulfide >= 500 | i0 ppm I ppm | |
| se liquid - Orga se liquid - Aque sorbents elating agents ueous liquid wi reactives ter reactives ming acids or a ock sensitive co olosives ophorics roleum produc dizers uzene 3s >= 25 ppm 3 liquids 3 capacitors/ba 8 capacitors/ba | enic based eous based th reactive cy th reactive su acid gases constituents ts | | 50 ppm | ch item check |
| se liquid - Orga se liquid - Aque sorbents elating agents ueous liquid wi reactives ter reactives ming acids or a ock sensitive co olosives ophorics roleum produc dizers uzene 3s >= 25 ppm 3s liquids | enic based eous based th reactive cy th reactive su icid gases onstituents | | 50 ppm | ch item check |
| se liquid - Orga se liquid - Aque sorbents elating agents ueous liquid wi reactives ter reactives ming acids or a ock sensitive co olosives ophorics roleum produc dizers uzene 3s >= 25 ppm 3s >= 5 ppm | enic based eous based of threactive cy th reactive su dicid gases constituents | • | 50 ppm | ch item check |
| se liquid - Orga se liquid - Aque sorbents elating agents ueous liquid wi reactives ter reactives er reactives ming acids or a ock sensitive co olosives ophorics roleum produc dizers nizene 3s >= 25 ppm | enic based eous based of threactive cy th reactive su dicid gases constituents | • | 50 ppm | ch item check |
| ce liquid - Orga ce liquid - Aque sorbents elating agents ueous liquid wi reactives ter reactives er reactives ming acids or a ock sensitive co olosives ophorics roleum produc dizers | enic based eous based of threactive cy th reactive su dicid gases constituents | • | 50 ppm | ch item check |
| ce liquid - Orga se liquid - Aque sorbents elating agents ueous liquid wi reactives ter reactives er reactives ming acids or a ock sensitive co olosives ophorics roleum produc dizers | enic based eous based of threactive cy th reactive su dicid gases constituents | • | 50 ppm | ch item check |
| ce liquid - Orga ce liquid - Aque sorbents elating agents ueous liquid wi reactives ter reactives er reactives ming acids or a ock sensitive co olosives ophorics roleum produc | enic based eous based of threactive cy th reactive su dicid gases constituents | • | 50 ppm | ch item check |
| pe liquid - Orga pe liquid - Aque sorbents elating agents ueous liquid wi reactives ter reactives per reactives ming acids or a pock sensitive co plosives ophorics | enic based eous based of threactive cy th reactive su dicid gases constituents | • | 50 ppm | ch item check |
| ee liquid - Orga ee liquid - Aque sorbents elating agents ueous liquid wi ueous liquid wi reactives ter reactives her reactives ming acids or a ack sensitive co | anic based cous based th reactive cy th reactive su | • | 50 ppm | ch item check |
| ee liquid - Orga ee liquid - Aque sorbents elating agents ueous liquid wi ueous liquid wi reactives ter reactives er reactives ming acids or a | anic based cous based th reactive cy th reactive su | • | 50 ppm | ch item check |
| ee liquid - Orga ee liquid - Aque sorbents elating agents ueous liquid wi ueous liquid wi reactives ter reactives er reactives | anic based cous based th reactive cy th reactive su | • | 50 ppm | ch item check |
| ee liquid - Orga ee liquid - Aque sorbents elating agents ueous liquid wi ueous liquid wi reactives ter reactives | anic based eous based th reactive cy | • | 50 ppm | ch item check |
| ee liquid - Orga ee liquid - Aque sorbents elating agents ueous liquid wi ueous liquid wi reactives | anic based eous based th reactive cy | • | 50 ppm | ch item check |
| ee liquid - Orga ee liquid - Aque sorbents elating agents ueous liquid wi ueous liquid wi | anic based eous based th reactive cy | • | 50 ppm | ch item check |
| ee liquid - Orga ee liquid - Aqua sorbents elating agents ueous liquid wi | anic based eous based th reactive cy | • | 50 ppm | ch item check |
| ee liquid - Orga ee liquid - Aque sorbents elating agents | anic based eous based | | | ch item check |
| ee liquid - Orga ee liquid - Aque sorbents | nnic based | | | ch item check |
| ee liquid - Orga ee liquid - Aqua | nnic based | | | ch item check |
| ee liquid - Orga | nnic based | | | ch item check |
| | ntain any of | | | ch item check |
| | ntain any of | | - | ch item check |
| e material co | | f the followi | ng? For each | |
| aracteristics | of Material: | | | |
| | _ | to | SSU | U |
| No I | s this incine | rable liquid | ? If yes, give | e viscosity ra |
| | | to | g/ml | nl |
| s ✓ No I | s this aquec | | | |
| te | | ous? If yes | , give total so | solids range: |
| 5 | No Is | aracteristics of Material: | No Is this incinerable liquid to | No Is this incinerable liquid? If yes, given to SS |

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Integrated Waste Tracking System Material and Waste Characterization Profile INFORMATION ONLY



3204Q : Sample MP

| c. | Yes No Is flash p | | • | | _ | | | |
|----|--------------------------------|------------|----------------|------|------------------------|-----------------------------------|--------------------|-------|
| | - | | | IVIC | | | | |
| | (Specify Other): | | | | | | | |
| d. | Information for incinerable wa | aste only: | | | | | | |
| u. | (1) Heat of combustion | , | to | | BTU/lb (| 2) Ash content | to | wt% |
| | , | | | | - | | | wt% |
| | (3) Total halogen content | | to | | _ ppm (| 4) Water content | to | Wt% |
| | (5) Suspended particulates | content | | to | ppn | n | | |
| | Metal | | wn or cted? | | expected osition Range | Representative Sample Analysis | Detection Limit | Units |
| | Antimony (Sb) | Yes | ✓ No | | to | to | | |
| | Arsenic (As) | Yes | ✓ No | | to | to | | |
| | Barium (Ba) | Yes | ✓ No | | to | | | |
| | Beryllium (Be) | Yes | ✓ No | | to | to | | |
| | Cadmium (Cd) | Yes | ✓ No | | to | to | | |
| | Chromium (Cr) | ✓ Yes | No | 5.08 | to 9.56 | to | | mg/kg |
| | Cobalt (Co) | Yes | ✓ No | | to | to | | |
| | Copper (Cu) | Yes | ✓ No | | to | to | | |
| | Iron (Fe) | Yes | ✓ No | | to | to | | |
| | Lead (Pb) | ✓ Yes | No | 2.08 | to 3.18 | to | | mg/kg |
| | Manganese (Mn) | Yes | ✓ No | | to | to | | |
| | Mercury (Hg) | Yes | ✓ No | | to | to | | |
| | Molybdenum (Mo) | Yes | ✓ No | | to | to | | |
| | Nickel (Ni) | Yes | ✓ No | | to | to | | |
| | Potassium (K) | Yes | ✓ No | | to | to | | |
| | Selenium (Se) | Yes | ✓ No | | to | to | | |
| | Silver (Ag) | Yes | ✓ No | | to | to | | |
| | Sodium (Na) | Yes | ✓ No | | to | to | | |
| | Thallium (TI) | Yes | ✓ No | | to | to | | |
| | Vanadium (V) | Yes | ✓ No | | to | to | | |
| | Zinc (Zn) | Yes | ✓ No | | to | to | | |

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Integrated Waste Tracking System Material and Waste Characterization Profile INFORMATION ONLY



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3204Q : Sample MP

| | Hazardous Constituents (Co | | | | | | | | | | | | | |
|-------------|--|----------------|----------------|------|-----------------|------|---------------|------------------|------|---|----------------|--------|-----------------|------------------|
| EPA Code | | Exp.? (Y,N) | TCLP Values | Туре | Waste C From | once | ntratio To | n Range Units | Repr | | ative Sa To | Units | Detect Limit | t Limit Units |
| Metals | : | | | | | | | 1 0 | | | 10 | Joints | Liiiit | Units |
| D004 | Arsenic | | | | | - | | | | | | | | |
| D005 | Barium | ✓ | | | | | | _ | | | | - | | - |
| D006 | Cadmium | | | | | | | | | | | - | | c |
| D007 | Chromium | ✓ | | | | | | - | | | | - | | 5 |
| D008 | Lead | ✓ | | | | | | _ | | | | - | | |
| D009 | Mercury | | | | | | | _ | | | | | | |
| D010 | Selenium | | | | | - | | - | | | | | | |
| D011 | Silver | \checkmark | | | | | | - | | | | | | |
| Volatile | s: | | | | | | | | | | | | | |
| D018 | Benzene | ✓ | | | | - | | | | | | | | |
| D019 | Carbon tetrachloride | $\overline{}$ | | | | - | | _ | | | | | | |
| D021 | Chlorobenzene | $\overline{}$ | | | | - | | | | | | - | | |
| 0022 | Chloroform | \checkmark | | | | - | | | | | | - | | |
| 0027 | p-Dichlorobenzene (1,4-Dichlorobenzene) | \checkmark | | - | | | | | | | | | | |
| 0028 | 1,2-Dichloroethane | ✓ | | | | | | | | | | _ | | |
| 0029 | 1,1-Dichloroethylene | $\overline{}$ | | | | | | | | | | | | |
| 0035 | Methyl ethyl ketone | \checkmark | | | | | | _ | | | | | | |
| 0038 | Pyridine | V | | _ | | | | | | | | | | |
| 0039 | Tetrachloroethylene | V | | _ | | | | _ | | - | | | | |
| 0040 | Trichloroethylene | ✓ | | | | | | _ | | | | | | |
| 0043 | Vinyl chloride | | | _ | | | | | | | | _ | | |
| emi-Vo | latiles: | | | | | | | | | | | | | |
| 0023 | o-Cresol | ✓ | | _ | | | | _ | | | | | | |
| 024 | m-Cresol | $\overline{}$ | | _ | | | | | | | | | | |
| 025 | p-Cresol | | | _ | | | | | | | | | | |
| 026 | Cresol | \checkmark | | | | | | | | | | | | |
| 030 | 2,4-Dinitrotoluene | ✓ | | | | | | | | | | | | |
| 032 | Hexachlorobenzene | $\overline{}$ | | | | | | | | | | _ | | |
| 033 | Hexachlorobutadiene | $\overline{}$ | | | | | | _ | | | | _ | | |
| 034 | Hexachloroethane | ✓ | | - | | | | _ | | | | _ | | |

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Integrated Waste Tracking System Material and Waste Characterization Profile INFORMATION ONLY



3204Q : Sample MP

| Exp. Today Values V | EPA | Hazardous | Exp.? | TCLP | T | Waste Co | ncentration | n Range | Repre | sentative S | ample | Detect | Limit |
|--|----------|-------------------------------------|---------------|-----------|----------|--------------|-------------|------------|--------|-------------|-------|--|-------|
| Nitrobenzene | | | | | Туре | | | | | | | | Unit |
| Description | Semi-Vo | platiles: | | | | | | | | | | | |
| 2.4,5-Trichlorophenol | 0036 | Nitrobenzene | ✓ | | | | | _ | | • | _ | | |
| Pesticides and Herbicides: | 0037 | Pentachlorophenol | ✓ | | | | | _ | | - | | | |
| Pesticides and Herbicides: 2012 | 0041 | 2,4,5-Trichlorophenol | | | | | | | | | _ | | - |
| Endrin | 0042 | 2,4,6-Trichlorophenol | ✓ | | | | | | | - | _ | | |
| 2012 Endrin, Endrin aldehyde | Pesticid | es and Herbicides: | | | | | | | | | | | |
| Lindane, alpha-BHC | 0012 | Endrin | $\overline{}$ | | | | | | | - | _ | | |
| Lindane, beta-BHC V | 0012 | Endrin, Endrin aldehyde | $\overline{}$ | | | | | _ | | | _ | | |
| Lindane, delta-BHC Lindane, gamma-BHC (Lindane) Methoxychlor Toxaphene Lindane, gamma-BHC (Lindane) Lindane, gamma-BHC (Lindane) Toxaphene Lindane, gamma-BHC (Lindane) Lindane, gamma-BLC (Lindane) Lindane, gamma-BHC (Lindane) Lindane, gamma-Better (Lindane) Lindane, g | 0013 | Lindane, alpha-BHC | \checkmark | | | | | _ | | - | _ | | |
| Lindane, gamma-BHC (Lindane) Methoxychlor Toxaphene V Lindane, gamma-BHC (Lindane) Lindane, gamma-Ble (Lindane) Lindane, gamma-Beta (Lindane) L | 0013 | Lindane, beta-BHC | \checkmark | | | | | | | | | | |
| Methoxychlor | D013 | Lindane, delta-BHC | ✓ | | | | | | | | _ | | |
| 2,4-D 2,4,5-TP (Silvex) Chlordane Choose "Type*" column designates type of analysis. (1=Approved Methods, 2=Process Knowledge, 3=Both) TCLP Values Type Trom To Units From To Units Limit Choose Spent halogenated solvents; No 2 | 0013 | Lindane, gamma-BHC (Lindane) | \checkmark | | | | | | | - | _ | | |
| 2,4,5-TP (Silvex) Chlordane Chl | 0014 | Methoxychlor | | | | | | | | | _ | | |
| Chlordane Chloradane Chlordane | 0015 | Toxaphene | $\overline{}$ | | | | | | | • | _ | | |
| Chlordane | 0016 | 2,4-D | | | | | | | | - | _ | | |
| Heptachlor | 0017 | 2,4,5-TP (Silvex) | ✓ | | | | | | | - | _ | | |
| No Constituent No Constituent No Concentration No Concen | 0020 | Chlordane | ✓ | | | | | | | - | _ | | |
| RCRA Hazardous Constituents (Other) EPA | 0031 | Heptachlor | \checkmark | | | | | | | | _ | | |
| RCRA Hazardous Constituents (Other) EPA | 0031 | Heptachlor epoxide | \checkmark | | | | | | | | _ | | |
| Spent halogenated solvents used in degreasing; 1,1,1-Trichloroethane Spent halogenated solvents; No 2 | RCRA H | Hazardous Constituents (Other) | alysis. (1 | TCLP | | | ntration Ra | inge | Repres | - | | Contract of the Contract of th | - |
| degreasing; 1,1,1-Trichloroethane Spent halogenated solvents; No 2 | Code | Constituent | | Values | Туре | From | То | Units | From | То | Units | Limit | Un |
| 1,1,1-Trichloroethane 5005B Spent non-halogenated solvents; No 2 | F001A | | n | No | 2 | | | | | - | _ | | |
| 2-Nitropropane Note: "Type*" column designates type of analysis. (1=Approved Methods, 2=Process Knowledge, 3=Both) | F002B | | | No | 2 | | | | | | | | |
| | 005B | | | No | 2 | | | | | | _ | | |
| Underlying Hazardous Constituents | lote: "T | ype*" column designates type of ana | alysis. (1: | =Approved | d Method | s, 2=Process | Knowledge | e, 3=Both) | | | | | |
| , w | | | | | | | | | | | | | |

14-Feb-2002

i. Analyte Data

Report[MaterialProfile], Integrated Waste Tracking System



Integrated Waste Tracking System Material and Waste Characterization Profile INFORMATION ONLY



3204Q : Sample MP

| 3. | a. | iological Characte Yes ✓ No Total transuranic | Is fiss | ile material pro | group | o is: | 0 | | 0 nCi/g (Alpha LLW) or |
|----|----|---|----------|------------------|---------|--------------|--------|------------|---|
| | C. | Isotope inventory: | | | | | | | |
| | | | | | | Othe | er Is | otop | es |
| | | Isotope | | | Activit | ty Range | | | Representative Sample Analysis Activity |
| | | Ba-137m | | 1.040E-12 | to | 2.010E-11 | pCi/ | g | |
| | | Cs-137 | | 1.080E-12 | to | 2.050E-11 | _ pCi/ | g | |
| | | Sr-90 | | 4.500E-10 | to | 5.000E-09 | pCi/ | g | |
| | | Y-90 | | 4.080E-10 | to | 1.800E-09 | _ pCi/ | g | |
| | d. | Expected radiat | ion dose | rate at surfac | e: _ | 0.1 | to | 0.5 | mrem/hr |
| | | | | at 1-me | eter: | 0.01 | to | 0.05 | mrem/hr |
| | e. | Yes ✓ N | O Is th | e waste great | er thar | n Class C as | define | d in 10 Cf | FR 61.557? |
| | f. | Content Codes: | | | | | | | |
| | | | | 5 | Sup | pleme | ntal | Infor | mation |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | - End | of Report | | | | | |

Appendix C

SSA Weekly Container Inspection Checklist and Deficiency Resolution Tracking Table

SSA WEEKLY CONTAINER INSPECTION CHECKLIST

| SSA | A Reg | gistra | ation Nu | mber: SITE: |
|-----|-------|--------|----------|---|
| • | YES | NO | N/A | |
| 1 | | | | Is there Waste in the area? IF "NO", the inspection is complete. Sign and date below. |
| 2 | | | | Is an up-to-date copy of the registration form posted at the area? |
| 3 | | | | Are "NO SMOKING" signs posted in the area if storing RCRA-defined Ignitable or Reactive waste? |
| 4 | | | | Are all waste containers labeled with the words "CERCLA WASTE"? |
| 5 | | | | Are all non-waste items stored in the area appropriately marked or labeled for identification? |
| 6 | | | | Is the housekeeping in the area adequate? |
| 7 | | | | Is there adequate aisle space for personnel and equipment to respond to emergencies and/or conduct inspections? |
| 8 | | | | Are all waste containers closed except when adding or removing waste? |
| 9 | | | | Are there incompatible wastes being stored? Note: Incompatible wastes are wastes that, when mixed with other waste or materials, can produce effects that are harmful to human health and the environment such as (1) heat or pressure, (2) fire or explosion, (3) violent reaction, (4) toxic dusts, mists, fumes, or gases, or (5) flammable fumes or gases. See 40 CFR 264, Appendix V for examples of potentially incompatible waste. |
| 10 | | | | If "yes" to question #9, are these incompatible wastes segregated within the area to maintain requirements for compatibility? |
| 11 | | | | Does the inventory, as reported in IWTS, match the inventory present in the area? |
| 12 | | | | Is a current copy of Appendix L of the INEEL Emergency Plan/RCRA Contingency Plan available in the SSA? |
| 13 | | | | Are waste types and quantities in accordance with those specified in Appendix I of the INEEL Emergency Plan/RCRA Contingency Plan? |
| 14 | | | | Is the Emergency and Communications Equipment present as listed in Appendix L of the INEEL Emergency Plan/RCRA Contingency Plan? |
| 15 | | | | Are there, or have there been, any releases or spills in the area since the last inspection? |

| 16 | If "Yes" to question 15, has the spill or release been reported to the Emergency Coordinator listed in Appendix L of the INEEL Emergency Plan/RCRA Contingency Plan? |
|-----------------------|--|
| 17 | If "Yes" to 15, has the spill or release been remediated and the spill and remediation documented on this checklist? |
| 18 | Do containers storing liquids have secondary containment, or are they otherwise prevented from discharging to open drains through dikes or berms? |
| 19 | Are all containers in good condition with no signs of leakage? |
| 20 | Is each PCB item or container marked with a PCB M _L or M _S mark? |
| 21 | Have previously identified deficiencies undergone resolution? Indicate status in deficiency resolution tracking table. |
| Additional Comme | nts: |
| | |
| | |
| | |
| | |
| | CERTIFICATION OF INSPECTION |
| I certify that all of | the above applicable items have been inspected. |
| Date | Time |
| Name (print) | Inspector Signature |

SSA WEEKLY CONTAINER INSPECTION DEFICIENCY RESOLUTION TRACKING TABLE

For each deficiency identified on the inspection checklist, note the item number and describe the nature of the deficiency in the table. Each week, indicate the status of previously identified deficiencies that have not yet been resolved. Upon resolution of any deficiencies, document in the "Deficiency Resolution Status" column how the deficiency was corrected and place any applicable documentation in the project file.

Table C-1. Deficiency resolution tracking table.

| Inspection Item | Date | | Deficiency Resolution |
|--------------------|------------|---------------------------|-----------------------|
| Number | Identified | Description of Deficiency | Status |
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This Checklist and Deficiency Table and those generated in the previous month (4 weeks) must be maintained at the SSA. Checklists generated prior to that are records and provided to ICP Document Control to be maintained in accordance with the *Waste Management Plan for the Staging and Storage Annex (CPP-1789)* (DOE/ID-10800), Subsection 6.6, "Records."

Appendix D

SSA Weekly Staging Area Inspection Checklist and Deficiency Resolution Tracking Table

SSA WEEKLY STAGING AREA INSPECTION CHECKLIST

| SSA Registration Number: | | ion Nu | mber: SITE: |
|--------------------------|----|--------|--|
| YES | NO | N/A | |
| 1 | | | Is there Waste in the area? IF "NO", the inspection is complete. Sign and date below. |
| 2 | | | Is an up-to-date copy of the registration form posted at the area? |
| 3 | | | Are "NO SMOKING" signs posted in the area if storing RCRA-defined Ignitable or Reactive waste? |
| 4 | | | Are all waste containers labeled with the words "CERCLA WASTE"? |
| 5 | | | Are all non-waste items stored in the area appropriately marked or labeled for identification? |
| 6 | | | Is the housekeeping in the area adequate? |
| 7 | | | Is there adequate aisle space for personnel and equipment to respond to emergencies and/or conduct inspections? |
| 8 | | | Are all waste containers or staging piles closed or covered except when adding o removing waste? |
| 9 | | | Are there incompatible wastes being staged at the SSA? Note: Incompatible wastes are wastes that, when mixed with other waste or materials, can produce effects that are harmful to human health and the environment such as (1) heat or pressure, (2) fire or explosion, (3) violent reaction, (4) toxic dusts, mists, fumes, or gases, or (5) flammable fumes or gases. See 40 CFR 264, Appendix V for examples of potentially incompatible waste. |
| 10 | | | If "yes" to question #9, are these incompatible wastes segregated within the area to maintain requirements for compatibility? |
| 11 | | | Does the inventory, as reported in IWTS, match the inventory present in the area? |
| 12 | | | Is a current copy of Appendix L of the INEEL Emergency Plan/RCRA Contingency Plan available in the SSA? |
| 13 | | | Are waste types and quantities in accordance with those specified in Appendix L of the INEEL Emergency Plan/RCRA Contingency Plan? |
| 14 | | | Is the Emergency and Communications Equipment present as listed in Appendix L of the INEEL Emergency Plan/RCRA Contingency Plan? |
| 15 | | | Are there, or have there been, any releases or spills in the area since the last inspection? |

| Name (pri | nt) | Inspector Signature | | | | |
|-----------------------------|-----------------|--|--|--|--|--|
| Date | T | ime | | | | |
| I certify th | at all of the a | above applicable items have been inspected. | | | | |
| CERTIFICATION OF INSPECTION | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| Additional | l Comments: | - | | | | |
| 20 | | Have previously identified deficiencies undergone resolution? Indicate status in deficiency resolution tracking table. | | | | |
| | | Is each PCB item or container marked with a PCB M _L or M _S mark? | | | | |
| | | Are all containers in good condition with no signs of leakage or deterioration? | | | | |
| 17 | | If "Yes" to 15, has the spill or release been remediated and the spill and remediation documented on this checklist? | | | | |
| 16 | | If "Yes" to question 15, has the spill or release been reported to the Emergency Coordinator listed in Appendix L of the INEEL Emergency Plan/RCRA Contingency Plan? | | | | |

SSA WEEKLY STAGING AREA INSPECTION DEFICIENCY RESOLUTION TRACKING TABLE

For each deficiency identified on the inspection checklist, note the item number and describe the nature of the deficiency in the table. Each week, indicate the status of previously identified deficiencies that have not yet been resolved. Upon resolution of any deficiencies, document in the "Deficiency Resolution Status" column how the deficiency was corrected and place any applicable documentation in the project file.

Table D-1. Deficiency resolution tracking table.

| Inspection | 10010 | thon tracking table. | |
|------------|------------|---------------------------|-----------------------|
| Item | Date | | Deficiency Resolution |
| Number | Identified | Description of Deficiency | Status |
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This Checklist and Deficiency Table and those generated in the previous month (4 weeks) must be maintained at the SSA. Checklists generated prior to that are records and provided to ICP Document Control to be maintained in accordance with the *Waste Management Plan for the Staging and Storage Annex (CPP-1789)* (DOE/ID-10800), Subsection 6.6, "Records."